XELJANZ® (tofacitinib) for the Treatment of Psoriatic Arthritis (PsA)

Arthritis Advisory Committee (AAC)

August 3, 2017 FDA White Oak Campus Silver Spring, MD

Introduction

Nancy McKay
Director, Regulatory Affairs
Pfizer Inc

Overview of Presentation

Topic	Presenter
Introduction	Nancy McKay Director, Regulatory Affairs Pfizer Inc
Psoriatic Arthritis: A Physician's Perspective/ Unmet Medical Need	Philip Mease, MD, MACR Director, Rheumatology Research, Swedish-Providence-St. Joseph Health Systems Clinical Professor, University of Washington School of Medicine, Seattle, WA
Tofacitinib PsA Development Program and Efficacy	Keith Kanik, MD, FACR Senior Director, Global Clinical Lead PsA Inflammation and Immunology Pfizer Inc
Tofacitinib PsA Safety	Daniela Graham, MD Clinician, PsA Development Program Inflammation and Immunology Pfizer Inc
Risk Management	Thomas Jones, MD Senior Director, Safety Risk Management Pfizer Inc
Benefit:Risk and Conclusions	Michael Corbo, PhD Senior VP, Chief Development Officer Inflammation and Immunology Pfizer Inc

Tofacitinib is an Oral, Small Molecule JAK Inhibitor

- JAK inhibition is partial and reversible and interferes with signaling of cytokines important in psoriatic arthritis
- Effective oral drug with manageable safety profile and efficacy similar to TNF-inhibitors
- Provides an oral option to address unmet needs for the treatment of patients with active PsA

Tofacitinib

XELJANZ® (tofacitinib) Development Program and Clinical Experience

- Xeljanz studied extensively with Phase 3 clinical development programs
 - Including rheumatoid arthritis, psoriasis, psoriatic arthritis, and ulcerative colitis
- Cumulatively, 22,132 patients have participated in the tofacitinib clinical development program with patients exposed for up to 9 years
- The total estimated post-marketing exposure is in excess of 83,000 patient-years (PY)
- The safety of tofacitinib for the treatment of PsA is based on a clinical development program that consists of
 - 783 PsA patients that have been exposed to tofacitinib
 - 775 patient-years of tofacitinib exposure as of May 10, 2016

XELJANZ® (tofacitinib) Regulatory History

- Rheumatoid Arthritis (RA)
 - Adult RA 5 mg BID IR NDA Approved November 6, 2012
 - Adult RA 11 mg QD XR NDA Approved February 23, 2016
 - Tofacitinib tablets are approved for RA in more than 80 countries;
 including US, Canada, EU countries and Japan
- Other Indications
 - PsO sNDA CRL October 9, 2015 / sNDA Withdrawn July 26, 2016
 - PsA sNDAs (IR and XR) Submitted February 22, 2017
 - UC sNDA Submitted May 4, 2017

Tofacitinib for the Treatment of PsA

- 5 mg BID of tofacitinib in PsA has shown efficacy consistent with bDMARDs in TNFi-naïve patients, while also demonstrating similar efficacy in TNFi-Inadequate Responders (IR)
- The safety profile of tofacitinib, including that in PsA patients, is well characterized, stable and manageable. It is informed by a large and growing safety database, with consistency between real world and clinical safety data
- The benefit:risk profile of tofacitinib 5 mg BID for PsA is positive and is based on substantial clinical evidence

XELJANZ® (tofacitinib) for PsA Proposed USPI: Indication and Dosage

Proposed Indication in sNDA (1. INDICATIONS AND USAGE)

XELJANZ is indicated for the treatment of adult patients with active psoriatic arthritis

Proposed Dosage in sNDA (2. DOSAGE AND ADMINISTRATION)

The recommended dose of XELJANZ is 5 mg twice daily used in combination with conventional synthetic DMARDs

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Psoriatic Arthritis: A Physician's Perspective/ Unmet Medical Need

Philip Mease, MD, MACR

Director, Rheumatology Research, Swedish-Providence-St. Joseph Health Systems

Clinical Professor of Medicine, University of Washington School of Medicine, Seattle, WA

Disclosures for Philip Mease

Research grants, consultation fees, and/or speaker honoraria: Abbvie, Amgen, Boehringer Ingelheim, Bristol Myers Squibb, Celgene, Crescendo, Genentech, Janssen, Lilly, Merck, Novartis, Pfizer, SUN, UCB

Professor Mease: Relevant Clinical, Research, and Education Experience

Clinical Practice

- Clinical rheumatologist for 35 years and Clinical Professor, University of Washington,
 Seattle
- Clinical experience with tofacitinib in RA patients since approval in November 2012

Research experience

- Conducted the first trial of TNFi therapy in PsA and participated in most PsA development programs
- Involvement in tofacitinib RA studies and in tofacitinib PsA clinical trial design and data interpretation

Relevant committees and working groups

- Founder and current executive committee member of Group for Research and Assessment of Psoriasis and Psoriatic Arthritis (GRAPPA)
- OMERACT PsA working group, the National Psoriasis Foundation PsA task force, and ACR-NPF PsA treatment recommendations working group
- Scientific director, Corrona PsA-SpA registry

Psoriatic Arthritis is a Distinct Disease Encompassing Numerous Clinical Manifestations¹

Peripheral Arthritis



- Arthritis affecting joints such as those in hands, feet and knees
- Progressive disability and joint destruction may occur

Enthesitis



Enthesitis is inflammation where tendons and ligaments attach to bone. Enthesitis can occur virtually anywhere in the body. It often appears at the insertion of the Achilles tendon or plantar fascia in the heel, causing walking and standing disability

Dactylitis



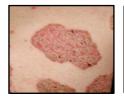
 Dactylitis is significant swelling in the fingers and toes, creating a sausage-like appearance. This is painful and causes stiffness and disability

Spondylitis



 Psoriatic arthritis in the spine and sacroiliac joints is called psoriatic spondylitis. This results in back pain, stiffness, inability to move and work impairment

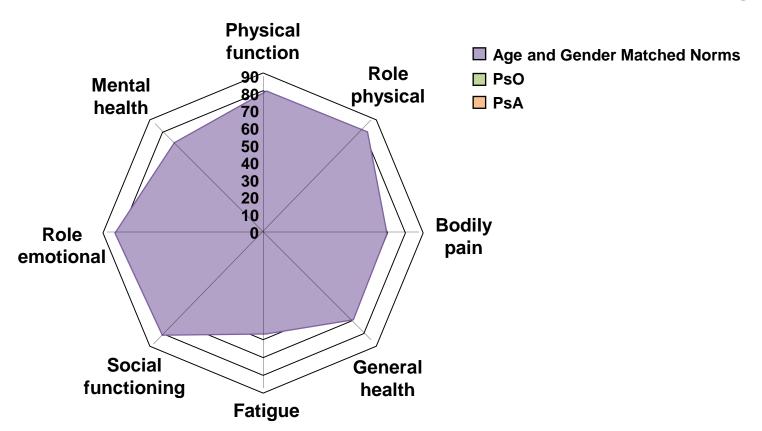
Skin Psoriasis



■ Psoriasis causes red, scaly, itchy, raised patches on the skin

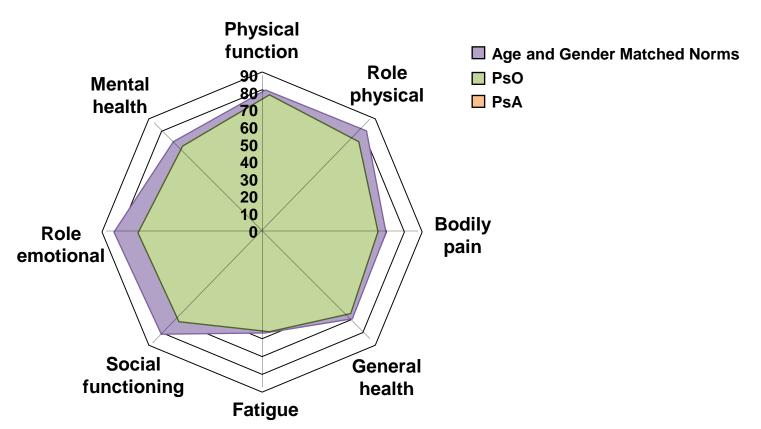
PsA Impacts Patient's Health Related Quality of Life, Physical and Mental Health

Comparison of Health-Related QoL in PsA and PsO using the SF-36



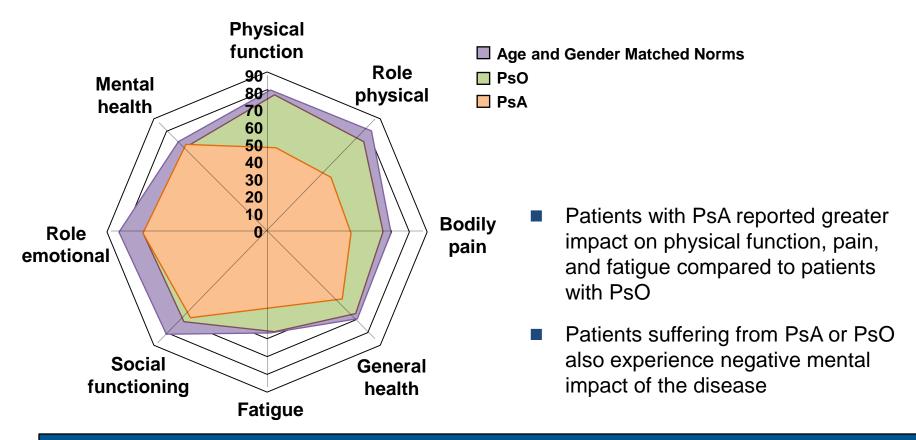
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PsA Impacts Patient's Health Related Quality of Life, Physical and Mental Health

Comparison of Health-Related QoL in PsA and PsO using the SF-36



Health-Related QoL is severely affected in PsA, both for physical and mental health

Existing Therapeutic Options for PsA Have Limitations: A Need for Effective New Therapies Exists¹⁻⁵

Conventional **NSAIDs** and **Non-TNF Inhibitor Targeted Synthetic TNF Inhibitors Glucocorticoids Synthetic DMARDs Biologics DMARDs** Methotrexate Etanercept **Ustekinumab** Apremilast (PDE4 inhibitor) (anti-IL-12/23) Infliximab Leflunomide Secukinumab Sulfasalazine Adalimumab (anti-IL-17A) Golimumab Abatacept Certolizumab pegol (inhibits T-cell co-stimulation)

^{1.} Coates L et al. *Arthirtis and Rheumatology* 2016;68(5):1060-1071.; 2. Gossec L et al. *Ann Rheum Dis* 2016;75:499-510.; 3. Mease P et al. *N Engl J Med* 2015;373:1329-39.; 4. Mease P et al. *Ann Rheum Dis* 2017;0:1-9.; 5. Mease PJ. *Ann Rheum Dis* 2011;70(suppl 1):i77-i84. csDMARD=conventional synthetic Disease-Modifying Anti-Rheumatic Drug; IL=Interleukin; MTX=Methotrexate; NSAID=Nonsteroidal Anti-

Existing Therapeutic Options for PsA Have Limitations: A Need for Effective New Therapies Exists¹⁻⁵

NSAIDs and Glucocorticoids

Conventional Synthetic DMARDs

- Methotrexate
- Leflunomide
- Sulfasalazine

TNF Inhibitors

- Etanercept
- Infliximab
- Adalimumab
- Golimumab
- Certolizumab pegol

Non-TNF Inhibitor Biologics

- Ustekinumab (anti-IL-12/23)
- Secukinumab (anti-IL-17A)
- Abatacept (inhibits T-cell co-stimulation)

Targeted Synthetic DMARDs

 Apremilast (PDE4 inhibitor)

Efficacy csDMARDs

- MTX is one of the most commonly used systemic medications in PsA, yet has demonstrated minimal clinical efficacy for PsA in studies⁵
- MTX and sulfasalazine have little effect on enthesitis, dactylitis, and spondylitis⁶

Efficacy of Targeted and Biologic DMARDs

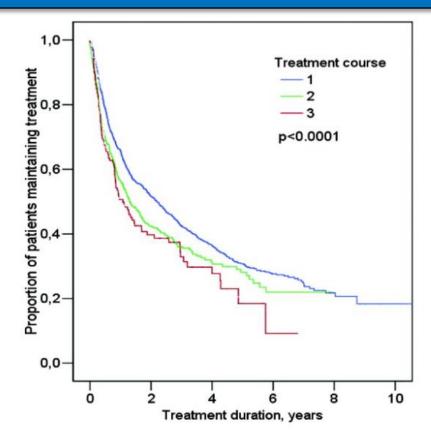
- The goal of achieving low disease activity or remission is now achievable, however
 - 36%-63% of patients do not achieve an ACR20 response at 6 months^{7,8-17}
 - 45%-69% may lose response over time or may experience adverse events^{8,18}
 - This leads to the need for additional medications to switch⁵

^{1.} Coates L et al. Arthirtis and Rheumatology 2016;68(5):1060-1071.; 2. Gossec L et al. Ann Rheum Dis 2016;75:499-510.; 3. Mease P et al. N Engl J Med 2015;373:1329-39.; 4. Mease P et al. Ann Rheum Dis 2017;0:1-9.; 5. Mease PJ. Ann Rheum Dis 2011;70(suppl 1):i77-i84.; 6. Marchesoni A et al. J Rheumatol 2015;93:61-64.; 7. Helliwell P et al. Arthirtis Care Res 2014;66:1759-1766.; 8. Lebwohl et al. J Am Acad Dermatol 2014;70:871-881.; 9. Otezla [package insert]. Summit, NJ: Celgene Corporation; 2014.; 10. Stelara [package insert]. Horsham, PA: Janssen Biotech, Inc.; 2014.; 11. Enbrel [package insert]. Thousand Oaks, CA: Immunex Corporation; 2015.; 12. Simponi [package insert]. Horsham, PA: Janssen Biotech, Inc.; 2015.; 13. Remicade [package insert]. Horsham, PA: Janssen Biotech, Inc.; 2015.; 14. Cosentyx [package insert]. East Hanover, NJ: Novartis Pharmaceuticals Corporation; 2016.; 15. Cimzia [package insert]. Smyrna, GA: UCB, Inc.; 2015.; 16. Humira [package insert]. North Chicago, IL: AbbVie Inc.; 2015.; 17. Golmia RP et al. Rev Bras Reumatol 2014;54:247-249.: 18. Zhang HF et al. Arthritis Res Ther 2014:16:420.

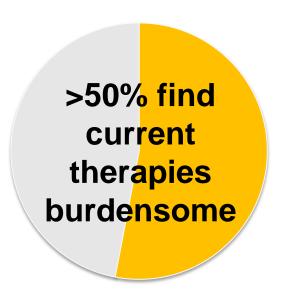
Median Drug Survival in PsA is 2 Years on TNFi

Clinical Response, Drug Survival, and Predictors of Response Among 548 Patients with Psoriatic Arthritis who Switched Tumor Necrosis Factor α Inhibitor Therapy:

Results from the Danish Nationwide DANBIO Registry



Patients Are Dissatisfied with Current Therapies



- Several key reasons why treatment was viewed as burdensome were^{1,2}
 - Lack/loss of effectiveness
 - Adverse events
 - Fear and anxiety of injections
 - Pain and discomfort of injections
 - Inconvenience

Arthritis



Arthritis



Enthesitis



Arthritis



Enthesitis

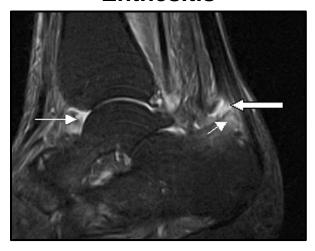


Pathogenic Cytokines are Mediated or Modified by Tofacitinib			
Cell Type	Function/Physical Signs and Symptoms	Activated/ Maintained by Cytokines	Produce Cytokines
CD4+ and CD8+ cells	Enthesitis skin inflammation synovitis	IL-6 ⁷ , IL-7 ⁴ , IL-15 ⁴ , IL-12 ⁷ , IL-23 ²	IL-17 ⁴ , IL-22 ⁴
Dendritic cells	T cell activation	IL-15 ⁴ , IFNα ³	IFNγ ⁴ , IL-12 ² , IL-23 ²
Innate lymphoid cells	Enthesitis	IL-7 ⁵	IL-17 ⁵ , IL-22 ⁵ , TNF ⁵
Keratinocytes	Hyperkeratosis systemic inflammation	IL-17 ⁴ , IL-22 ¹ , IL-20 family ¹	
Lymphocyte synoviocyte interaction	Synovial inflammation	IL-15 ⁸ , IFNγ ⁸ , IL-17 ⁸	RANKL ⁶ , TNF ³
Osteoclast	Bone resorption	RANKL ⁶ , IL-6 ⁶ , TNF ³	
Osteoblast	Pathologic bone formation	IL-22 ³	

Arthritis



Enthesitis



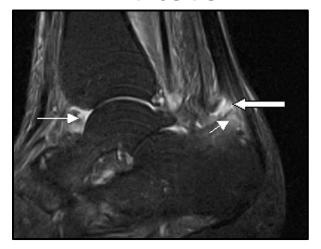
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Cytokines in red are JAK dependent

Arthritis



Enthesitis



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Cytokines in red are JAK dependent Tofacitinib reduces the production or downstream effects of cytokines in blue

Summary

- Psoriatic arthritis has numerous clinical manifestations
 - Resulting in physical disability and psychosocial impact
- Each patient with PsA is clinically unique
 - The disease burden is typically high
- Despite the availability of several therapeutic options
 - Drugs to treat patients with active PsA all have limitations
- A need exists for medications that work across the spectrum of cytokines involved in the pathogenesis of PsA with a convenient mode of delivery, i.e. oral
 - Tofacitinib has a well-characterized efficacy and safety profile well known to rheumatologists who have used it in RA

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Tofacitinib PsA Development Program and **Efficacy**

Keith Kanik, MD, FACR Senior Director, Global Clinical Lead PsA Inflammation and Immunology Pfizer Inc

Psoriatic Arthritis is a Complex Disease

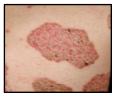
Study Endpoints Associated with PsA Disease Manifestations

Peripheral Arthritis



- ACR 20/50/70 response rates
- Health Assessment Questionnaire-Disability Index (HAQ-DI)
- Radiographic evaluation of structural damage

Psoriasis



- Psoriasis Area and Severity Index (PASI)
- Physician's Global Assessment of Psoriasis (PGA-PsO)

Enthesitis



- Leeds Enthesitis Index (LEI); Enthesitis resolution (LEI)
- SPARCC Enthesitis Index score; Enthesitis resolution (SPARCC)

Dactylitis



- Dactylitis Severity Score (DSS)
- Dactylitis absence

Spondylitis



Bath Ankylosing Spondylitis Disease Activity Index (BASDAI)

Psoriatic Arthritis is a Complex Disease

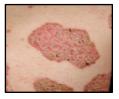
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Spondylitis

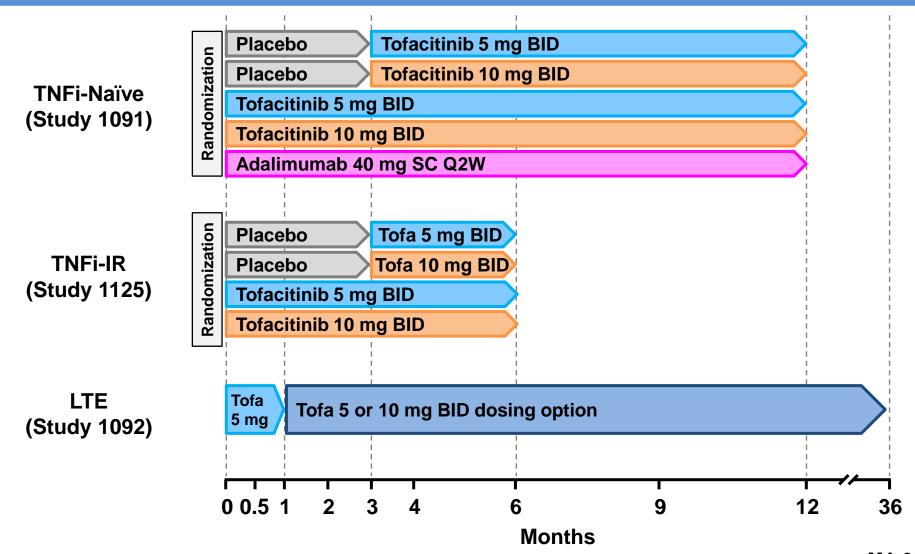


Bath Ankylosing Spondylitis Disease Activity Index (BASDAI)

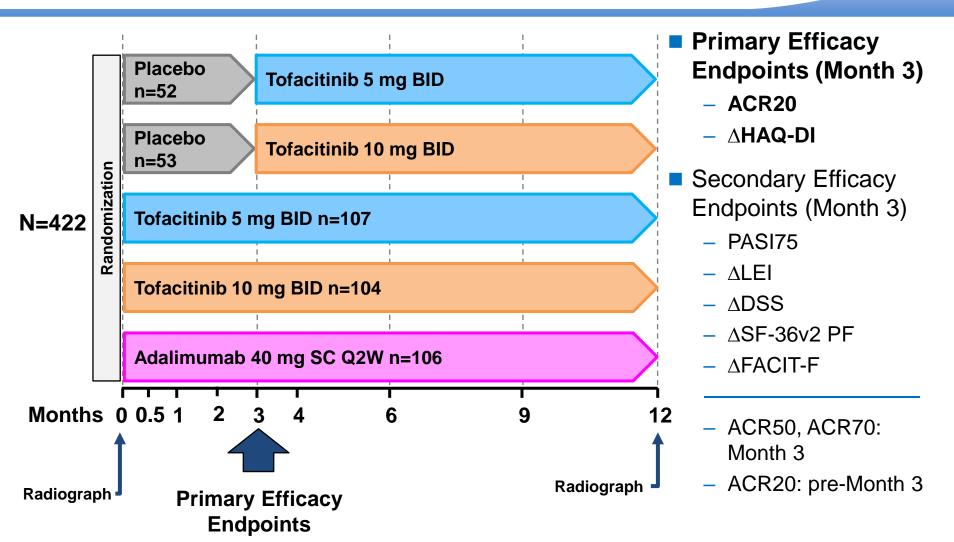
CASPAR Criteria to Classify PsA

- To meet the CASPAR (Classification Criteria for Psoriatic Arthritis) criteria, a patient <u>must have inflammatory articular disease</u> (joint, spine, or entheseal) with 3 points from the following 5 categories
 - Evidence of current psoriasis, a personal history of psoriasis, or a family history of psoriasis
 - 2. Typical psoriatic nail dystrophy including oncholysis, pitting, and hyperkeratosis observed on current physical examination
 - A negative test result for the presence of rheumatoid factor by any method except latex but preferably by enzyme-linked immunosorbent assay or nephelometry, according to the local laboratory reference range
 - 4. Either current dactylitis or a history of dactylitis recorded by a rheumatologist
 - Radiographic evidence of juxta-articular new bone formation, appearing as ill-defined ossification near joint margins (but excluding osteophyte formation) on plain radiographs of the hand or foot

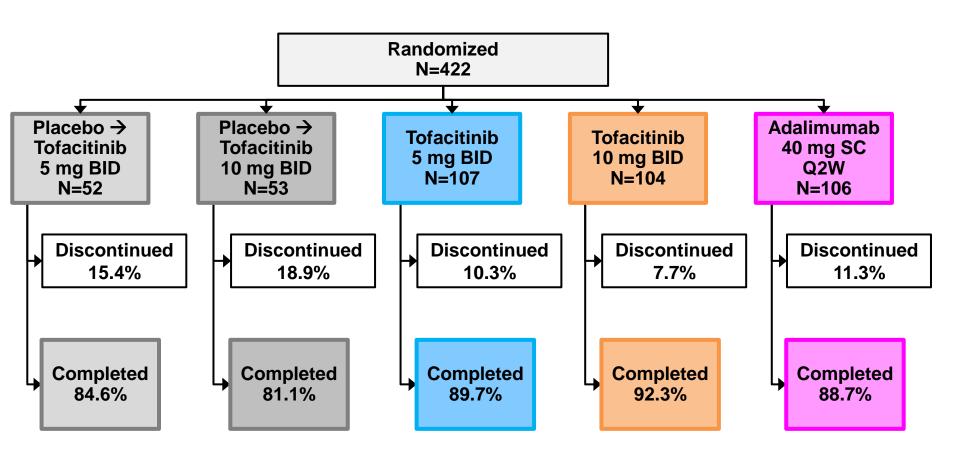
Tofacitinib PsA Phase 3 Program Design



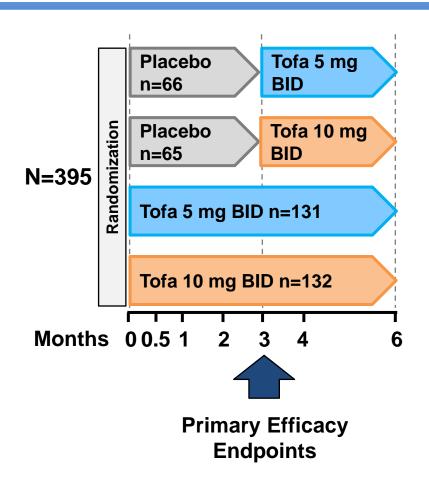
TNFi-Naïve Patient Study Design (Study 1091)



Patient Disposition in TNFi-Naïve Study (Study 1091)

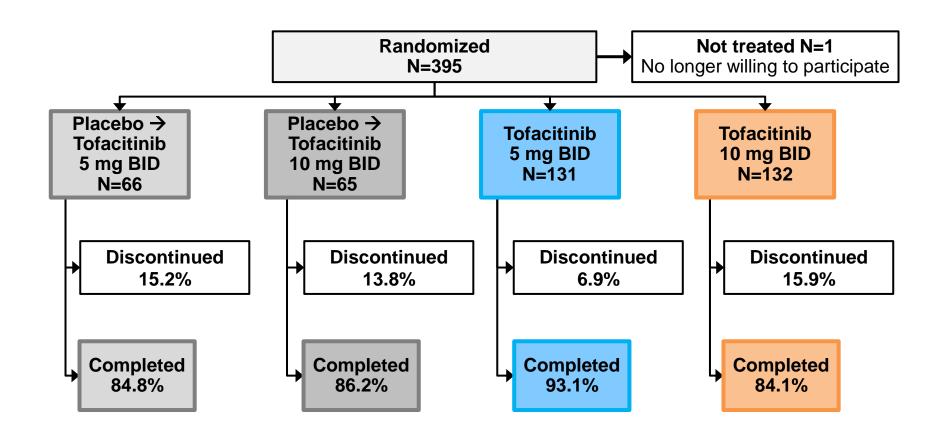


TNFi-Inadequate Responder (TNFi-IR) Study Design (Study 1125)



- Primary Efficacy Endpoints (Month 3)
 - ACR20
 - ∆HAQ-DI
- Secondary Efficacy Endpoints (Month 3)
 - PASI75
 - ALEI
 - ADSS
 - ∆SF-36v2 PF
 - ∆FACIT-F
 - ACR50, ACR70: Month 3
 - ACR20: pre-Month 3

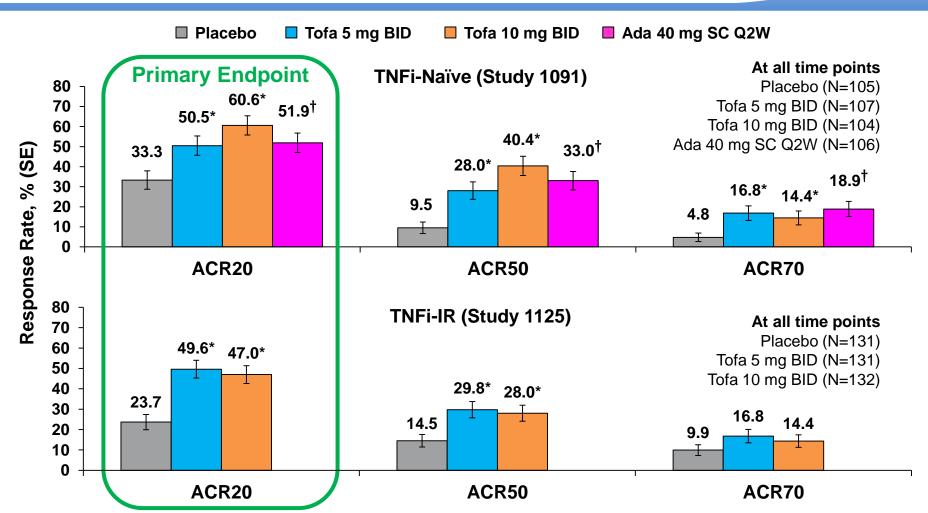
Patient Disposition in TNFi-IR Study (Study 1125)



Similar Baseline Demographics and Disease Characteristics Between PsA Studies

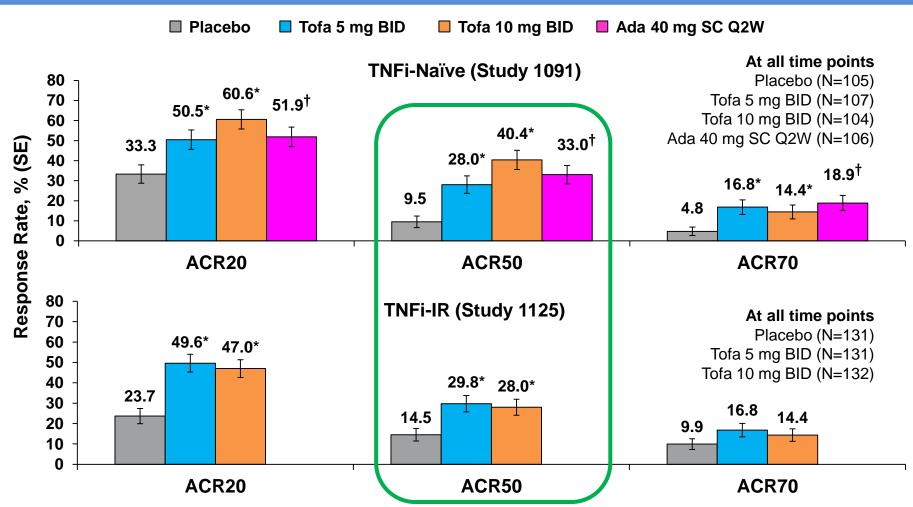
	TNFi-Naïve (Study 1091) N=422	TNFi-IR (Study 1125) N=394
Male, n (%)	197 (46.7)	176 (44.7)
Age, mean, years (SD)	47.9 (12.1)	50.0 (12.0)
White, n (%)	409 (96.9)	363 (92.1)
Mean PsA duration, years	6.1	9.4
Patients with BSA≥3% psoriasis, %	73.9	62.7
Patients with enthesitis, LEI >0, %	66.4	69.8
Patients with dactylitis, DSS >0, %	56.2	49.2
Mean swollen joint count	11.5	11.8
Mean tender joint count	19.6	22.0
Median CRP, mg/L (ULN 2.87 mg/L)	4.89	4.73
Mean HAQ-DI	1.11	1.30
Patients with concomitant csDMARD use, %	100.0	99.0
MTX use, %	83.9	71.6
Patients with oral corticosteroid use, %	19.2	24.1

Significant Improvement in Peripheral Arthritis (Month 3)



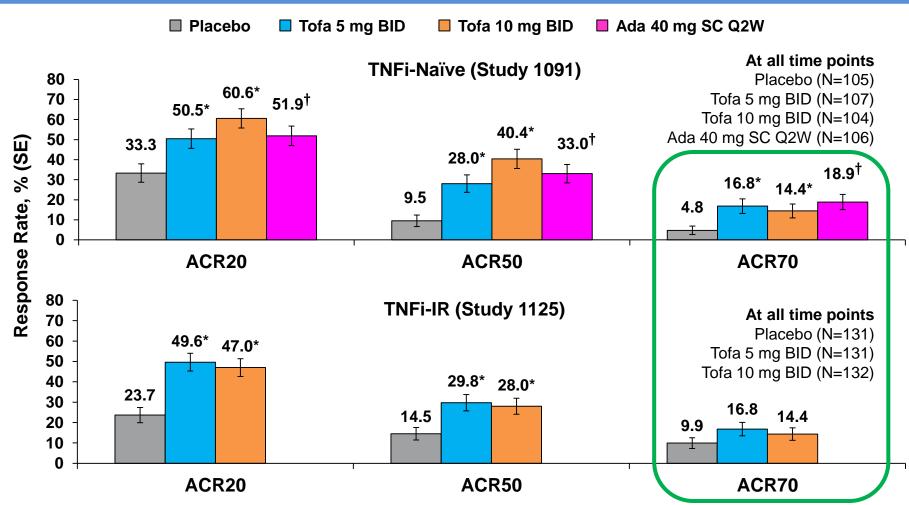
^{*}Achieved statistical significance under Type I error control †95% CI for difference between active treatment and placebo excluded zero FAS, MR=NR CI=Confidence Interval; SE=Standard Error

Significant Improvement in Peripheral Arthritis (Month 3)



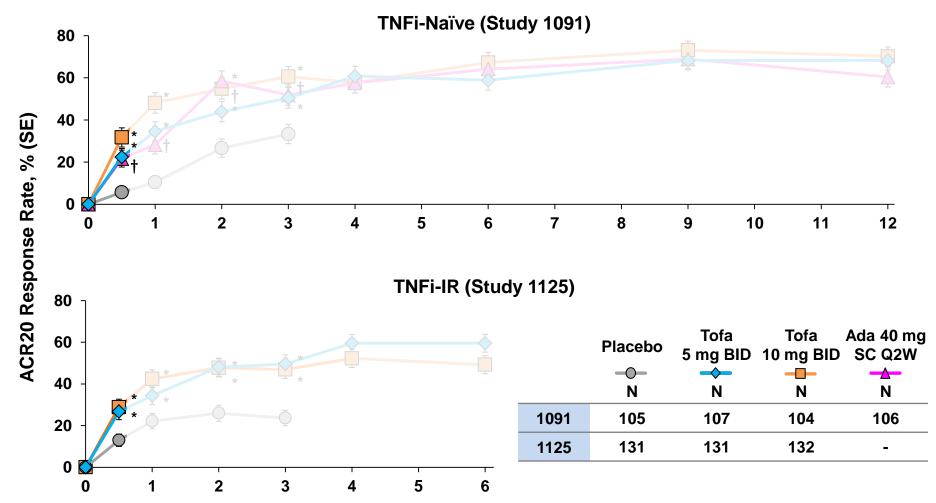
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Onset of Efficacy at 2 Weeks

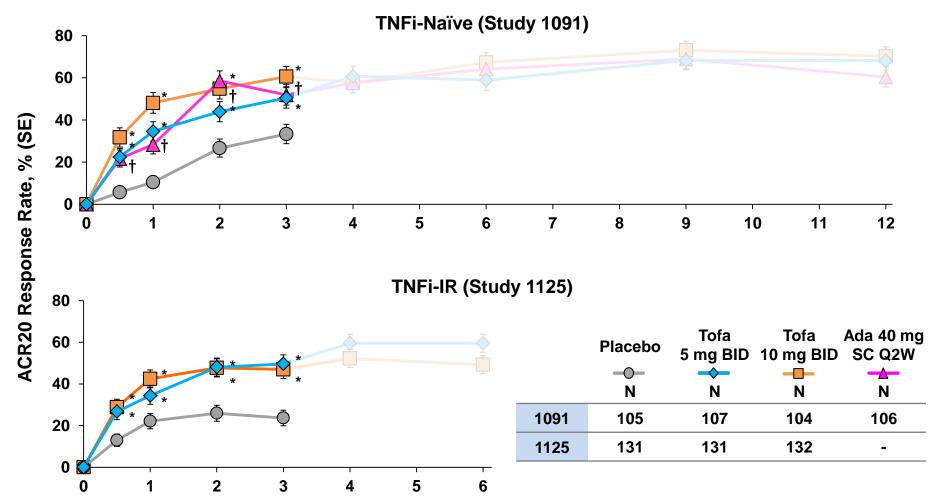


Month

MA-41

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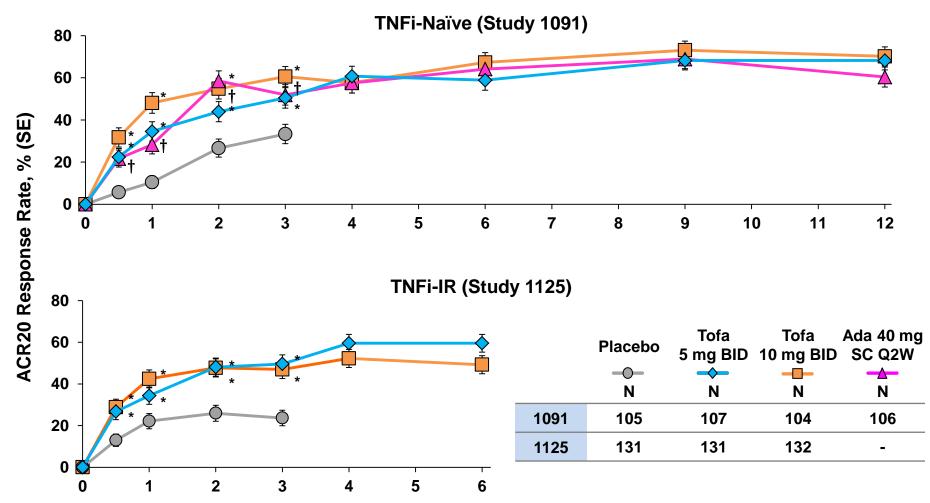
Efficacy First Observed at 2 Weeks Continued to Improve to Month 3



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Month

Efficacy Improved or Maintained Beyond Month 3

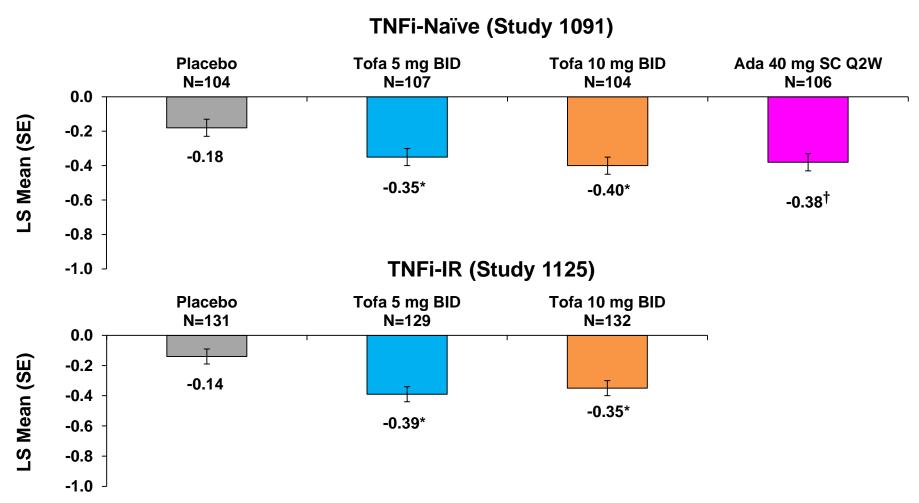


Month

MA-43

^{*}Achieved statistical significance under Type I error control †95% CI for difference between active treatment and placebo excluded zero FAS, MR=NR

Significant Improvements in ∆HAQ-DI (Month 3): Second Primary Endpoint

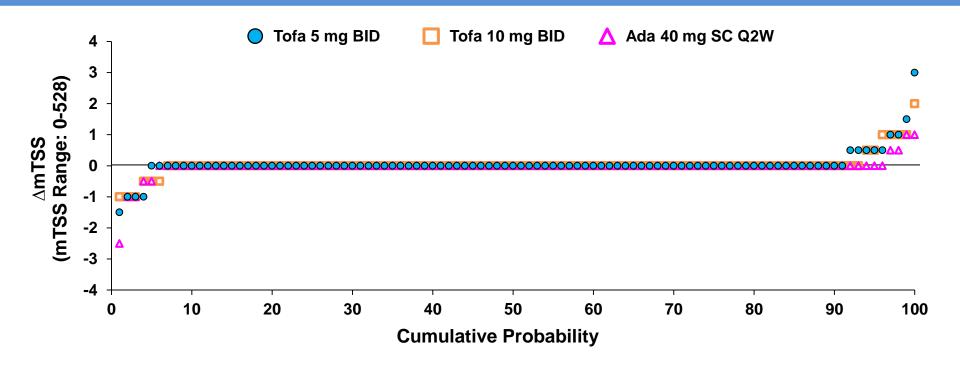


^{*}Achieved statistical significance under Type I error control †95% CI for difference between active treatment and placebo excluded zero MMRM, FAS LS=Least Square; MMRM=Mixed Model for Repeated Measures

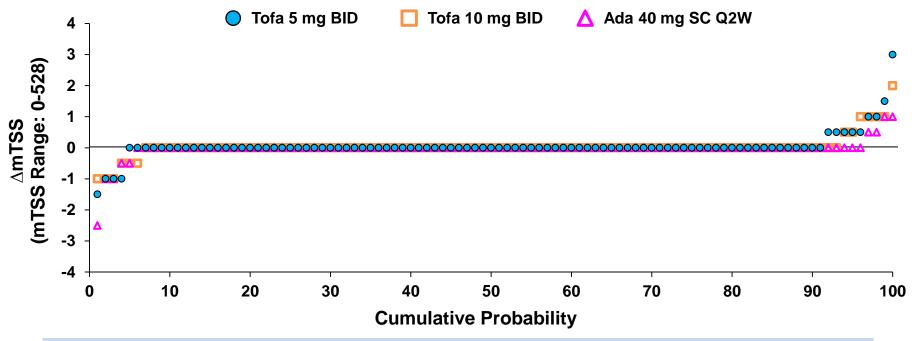
Evaluation of Radiographic Progression

- Radiographs of hands and feet taken at baseline and Month 12 (or early termination) in TNFi-naïve patients (Study 1091)
- This pre-specified analysis was performed to assess lack of structural progression over 12 months of tofacitinib treatment
- Adalimumab 40 mg SC Q2W used as active comparator
- Study designed with consideration of regulatory agency advice

Change from Baseline in mTSS at Month 12 in TNFi-Naïve Patients (Study 1091)

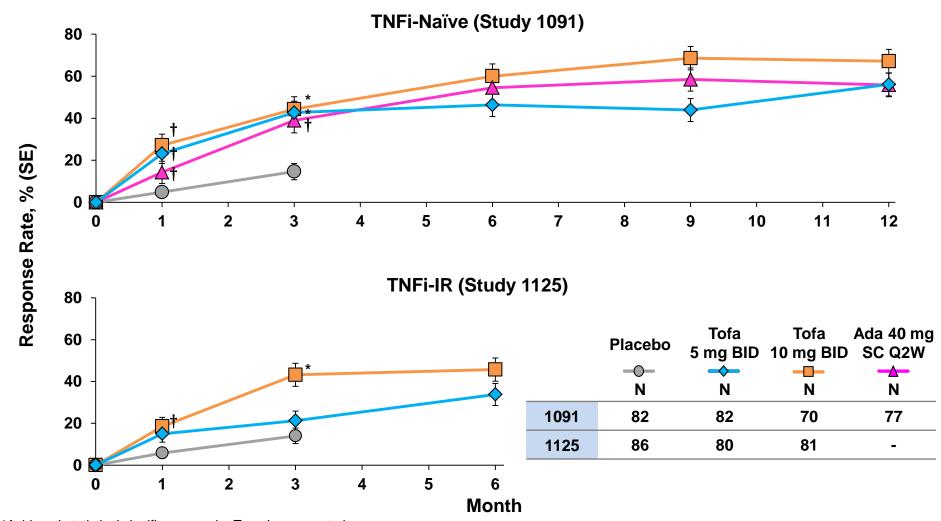


∆mTSS and Progressor Rates at Month 12 in TNFi-Naïve Patients (Study 1091)



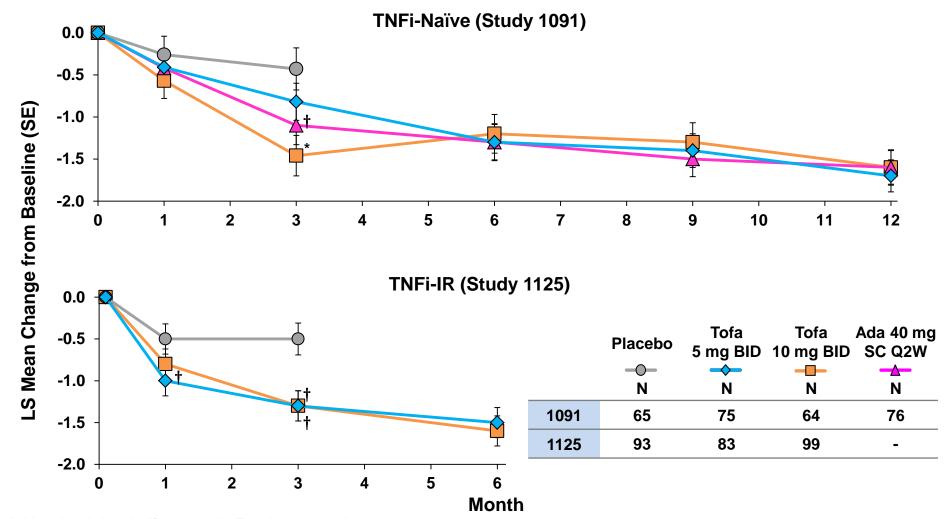
Progressor Rate at Month 12					
	N	ΔmTSS>0 n (%)	Ada 40 md SC 02W		Difference from Ada 40 mg SC Q2W % (95% CI)
Tofa 5 mg BID	98	9 (9.2)	5.0 (-2.0, 12.0)	4 (4.1)	2.0 (-2.9, 6.8)
Tofa 10 mg BID	99	7 (7.1)	2.9 (-3.6, 9.3)	5 (5.1)	3.0 (-2.3, 8.1)
Ada 40 mg SC Q2W	95	4 (4.2)	-	2 (2.1)	-

Improvements in Psoriasis (PASI75 Response Rate)



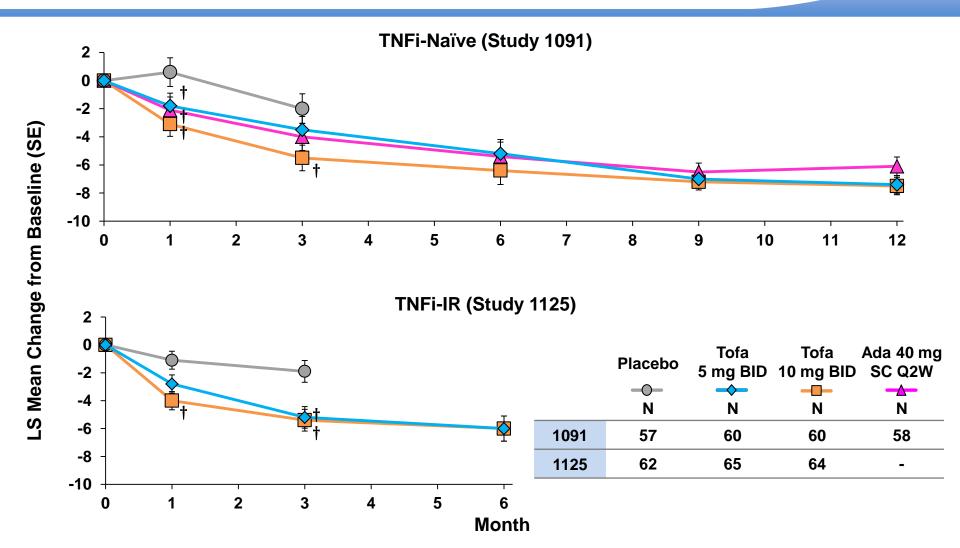
^{*}Achieved statistical significance under Type I error control †95% CI for difference between active treatment and placebo excluded zero For patients with Baseline BSA≥3% and PASI>0 in FAS, MR=NR

Improvements in Enthesitis (∆Leeds Enthesitis Index)

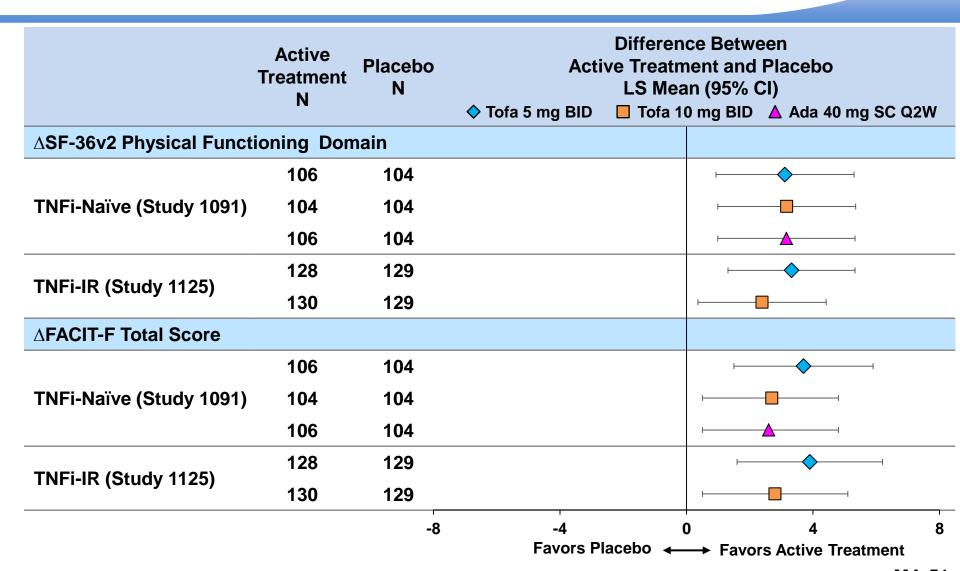


^{*}Achieved statistical significance under Type I error control †95% CI for difference between active treatment and placebo excluded zero For patients with Baseline LEI>0 in FAS, MMRM

Improvements in Dactylitis (△Dactylitis Severity Score)



Improvements in SF-36v2 Physical Functioning Domain and FACIT-F Total Score at Month 3



Tofacitinib 5 mg BID Demonstrated Efficacy Across PsA Disease Manifestations in Both TNFi-Naïve and TNFi-IR Patient Populations

Peripheral Arthritis

- ACR 20/50/70 response rates
- ∆HAQ-DI
- Maintenance of structural integrity

Psoriasis

Psoriasis Area and Severity Index (PASI)75 response rate

Enthesitis

△Leeds Enthesitis Index score (LEI)

Dactylitis

Efficacy in improving patient reported outcomes including physical functioning and fatigue

Overview of Presentation

Topic	Presenter
Introduction	Nancy McKay Director, Regulatory Affairs Pfizer Inc
Psoriatic Arthritis: A Rheumatologist's Perspective/ Unmet Medical Need	Philip Mease, MD, MACR Director, Rheumatology Research, Swedish-Providence-St. Joseph's Health Systems Clinical Professor, University of Washington School of Medicine, Seattle, WA
Tofacitinib PsA Development Program and Efficacy	Keith Kanik, MD, FACR Senior Director, Global Clinical Lead PsA Inflammation and Immunology Pfizer Inc
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Risk Management	Thomas Jones, MD Senior Director, Safety Risk Management Pfizer Inc
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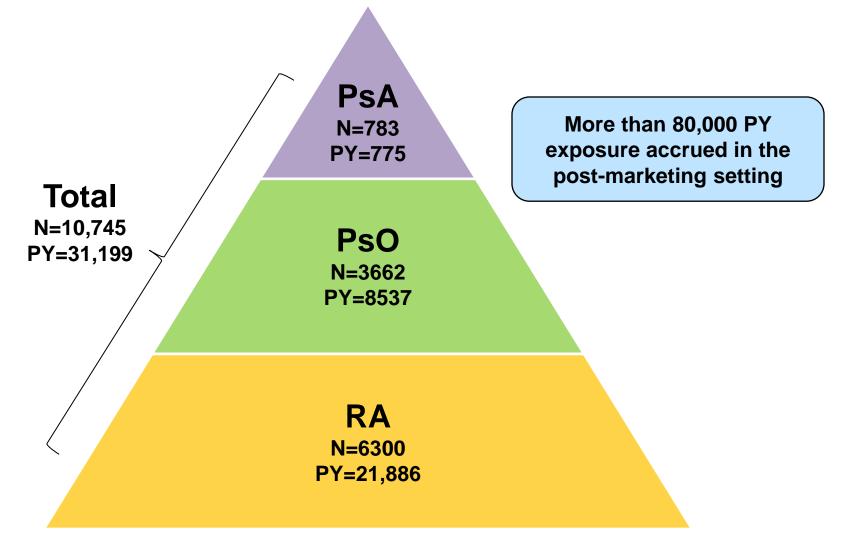
Tofacitinib PsA Safety

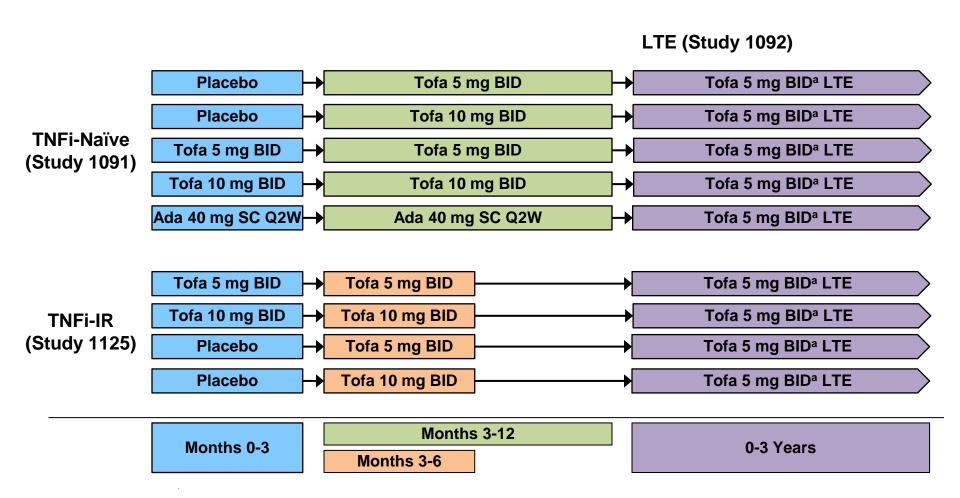
Daniela Graham, MD
Clinician, PsA Development Program
Inflammation and Immunology
Pfizer Inc

Robust Database of Patients Studied in PsA

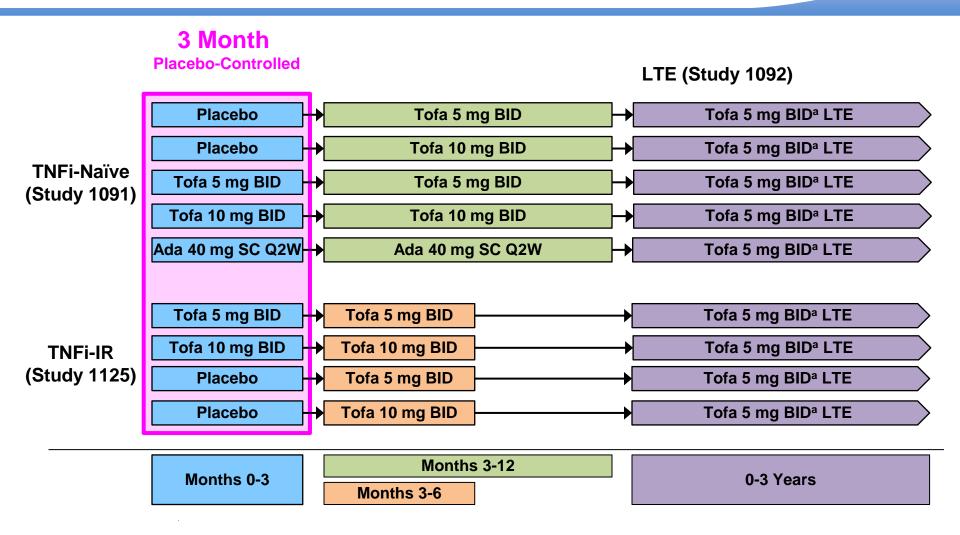
PsA N=783 PY=775

Tofacitinib Clinical Trial Patient-Years of Exposure

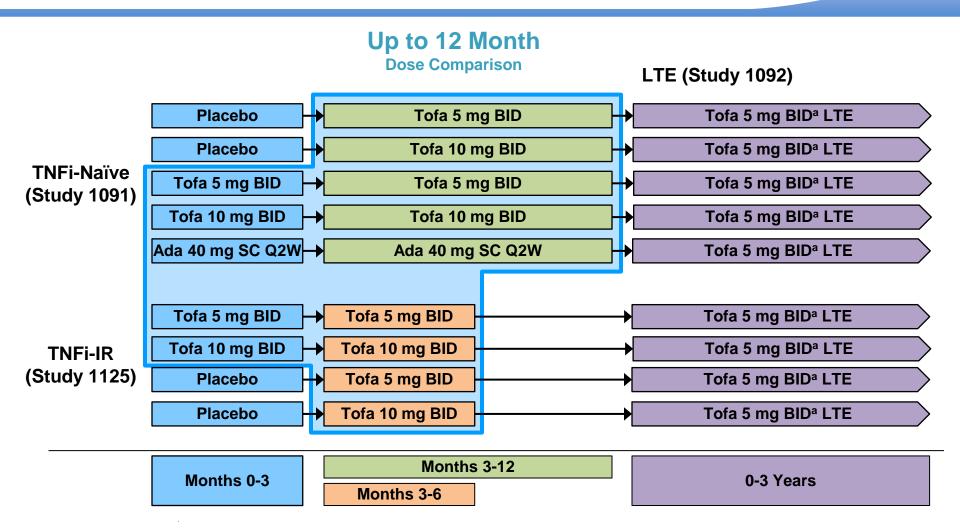




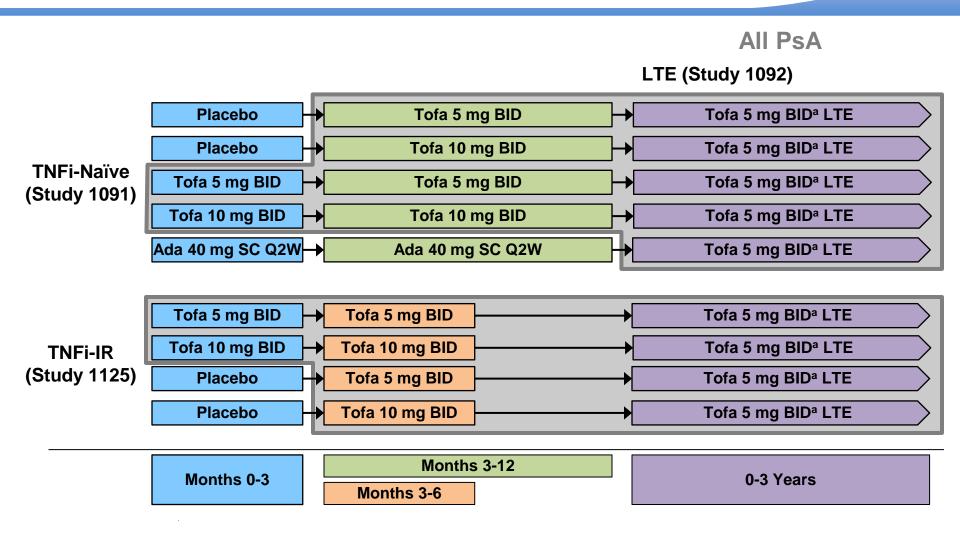
a. The investigator had the option to increase the dose to tofacitinib 10 mg BID in those subjects who were receiving tofacitinib 5 mg BID and, in the investigator's opinion, had PsA symptoms that are not adequately controlled. Changes in the dose were only permitted at scheduled study visits, unless a reduction to tofacitinib 5 mg BID was required due to safety abnormalities



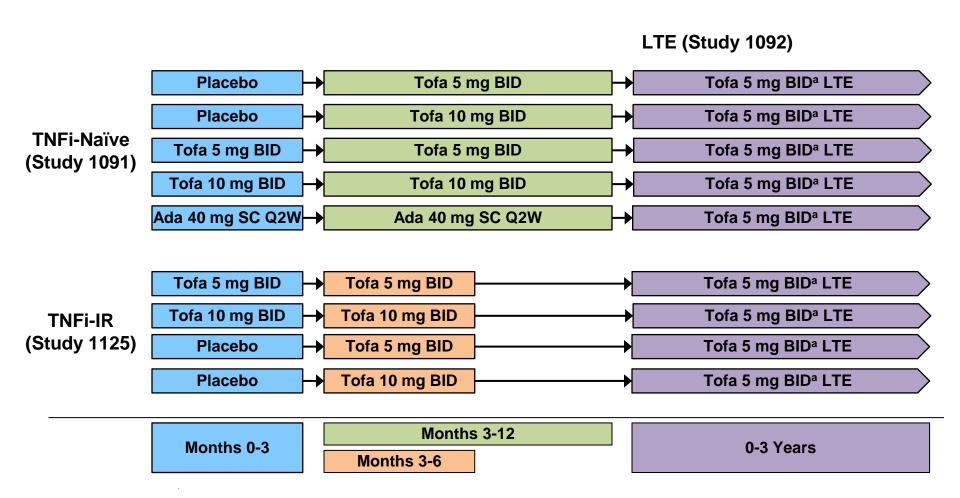
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Discontinuations During the 3 Month Placebo-Controlled Period (Pooled Data)

	Placebo N=236 n (%)	Tofa 5 mg BID N=238 n (%)	Tofa 10 mg BID N=236 n (%)	Ada 40 mg SC Q2W (Study 1091 Only) N=106 n (%)	
Discontinuations (any reason)	20 (8.5)	11 (4.6)	11 (4.7)	4 (3.8)	
Subjects died	0	0	0	0	
Adverse event	6 (2.5)	5 (2.1)	4 (1.7)	2 (1.9)	
Insufficient clinical response	4 (1.7)	1 (0.4)	2 (0.8)	0	
Subject no longer willing to participate in study	6 (2.5)	2 (0.8)	2 (0.8)	1 (0.9)	
Other	4 (1.7)	3 (1.3)	3 (1.3)	1 (0.9)	

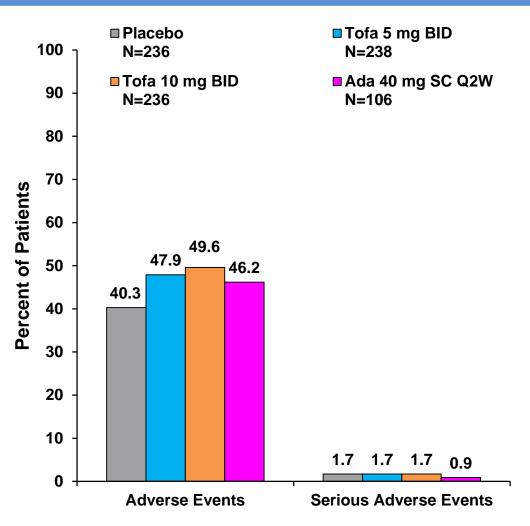
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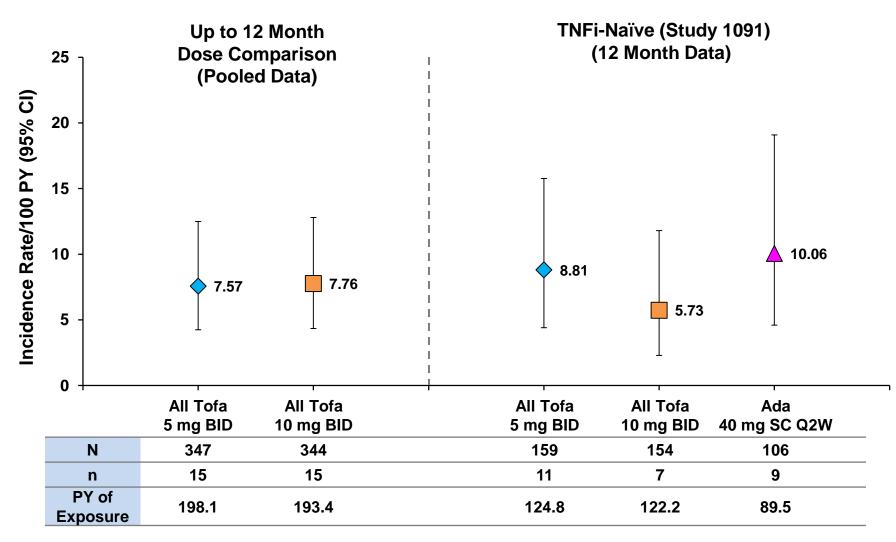
Summary of Adverse Events in the 3 Month Placebo-Controlled Period (Pooled Data)



Most frequent AEs

- Nasopharyngitis
- Upper respiratory tract infections
- Headache
- Most frequent SAEs were infections

Incidence Rate of SAEs Similar Between Tofacitinib Doses and Adalimumab



Deaths in Patients Participating in the PsA Studies (All PsA, Pooled Data)

Preferred Term	Dose at Time of Death	Randomized Sequence	Gender/ Race/ Age	Country	Days on Tofa ^a	Medical History
Sudden Cardiac Death	Tofa 5 mg BID	Placebo- Tofa 5 mg BID	Female/ White/ 73	Poland	56	HypertensionDiabetesOverweight
Acute Cardiac Failure (secondary to hypertensive heart disease)	Tofa 10 mg BID	Placebo- Tofa 5 mg BID	Female/ White/ 57	UK	273	HypertensionHypercholesterolemiaRecent elective surgery
Pulmonary Embolism	Tofa 5 mg BID	Tofa 5 mg BID	Female/ White/ 46	UK	346	ObesityNormal platelets and INR
Pancreatic Carcinoma Metastatic	Tofa 5 mg BID	Ada 40 mg SC Q2W	Male/ White/ 54	Poland	84	• Smoker

No deaths were related to study drug, per the investigators' assessment

Adverse Events of Special Interest

Serious Infections

Herpes Zoster

Opportunistic Infections

Major Adverse Cardiovascular Events

Malignancies

Gastrointestinal (GI) Perforations

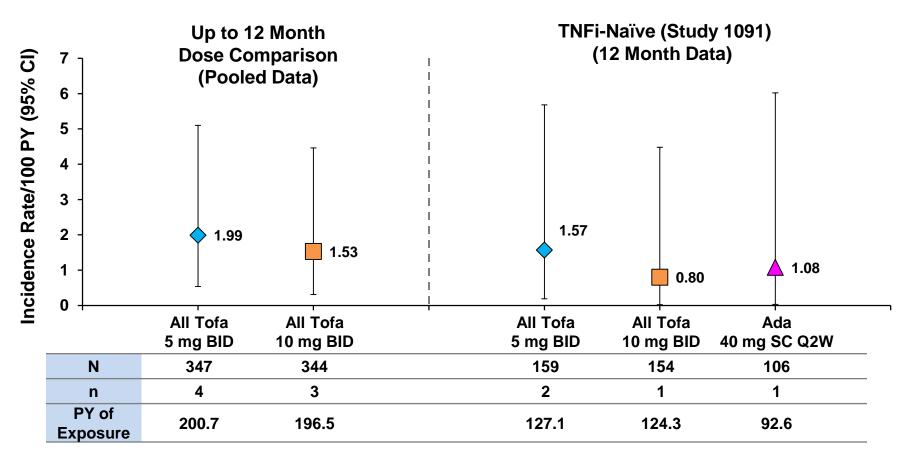
Hepatic Events

Interstitial Lung Disease

External Comparison Cohort For Risk Contextualization: Truven MarketScan Claims Database

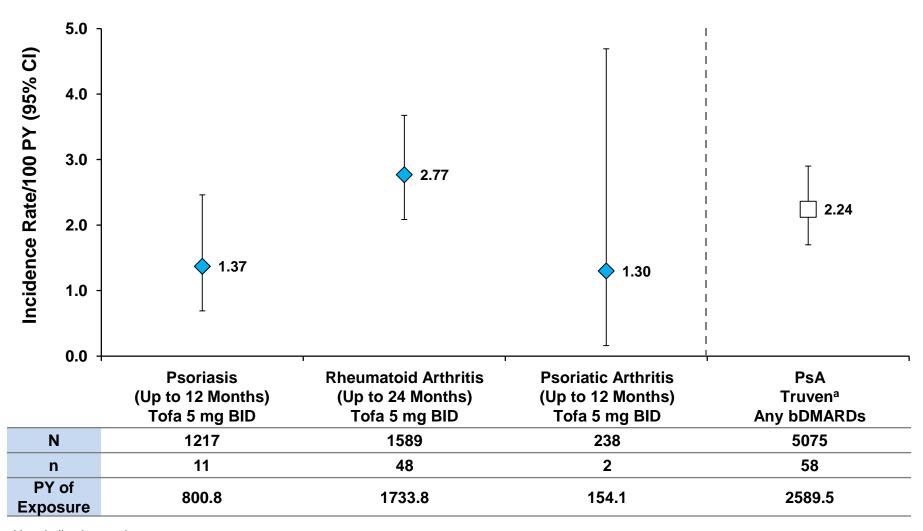
- Observational database comprised of US medical claims
- Cohort of PsA patients in a real-world clinical setting
 - Defined as ≥1 inpatient or ≥2 outpatient diagnosis codes of PsA
 - Moderate-severe disease
 - Exclusion criteria from the tofacitinib global Phase 3 PsA studies applied
 - Included 5799 patients
- Comparison with Phase 3 trial data should be made with consideration of the differences between the two distinct data sources

Serious Infections and Incidence Rate Similar to Adalimumab

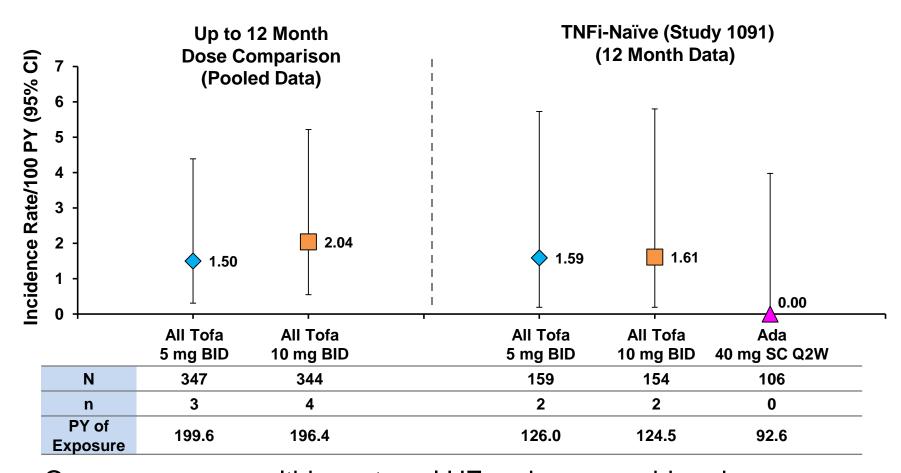


- Serious infections were pneumonia, oral candidiasis, influenza, pyelonephritis, parotitis, herpes simplex/pyoderma streptococcal
- All resolved after treatment

Serious Infections Incidence Rate in PsA Similar to Other Tofacitinib RCT Programs



Herpes Zoster Incidence Rate Similar Between Tofacitinib Doses

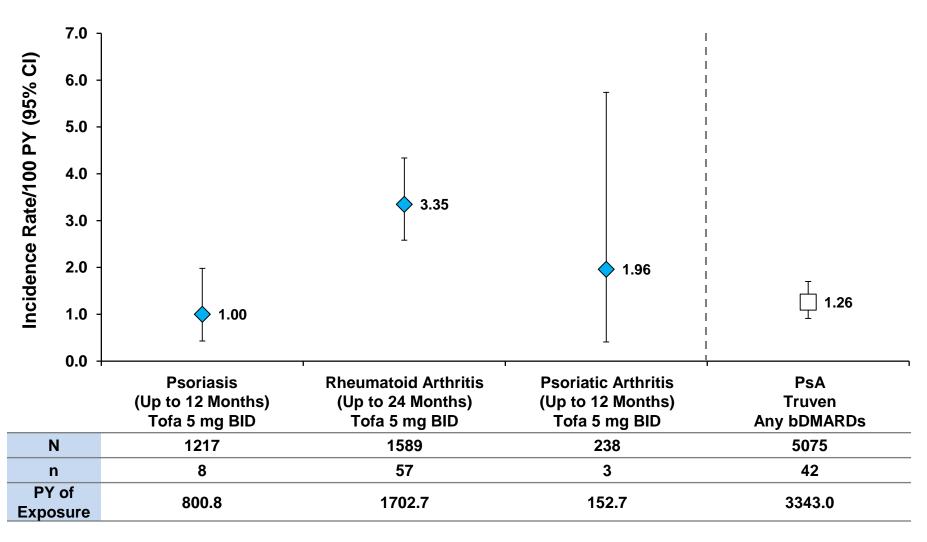


One case was a multidermatomal HZ and was considered an opportunistic infection

HZ=Herpes Zoster

MA-72

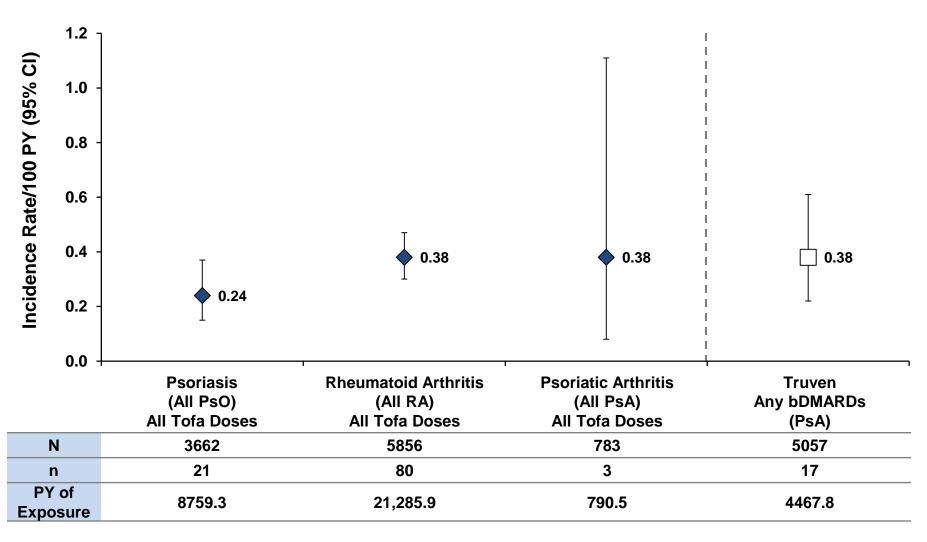
Herpes Zoster Incidence Rate in PsA Similar to Those in Other Tofacitinib RCT Programs



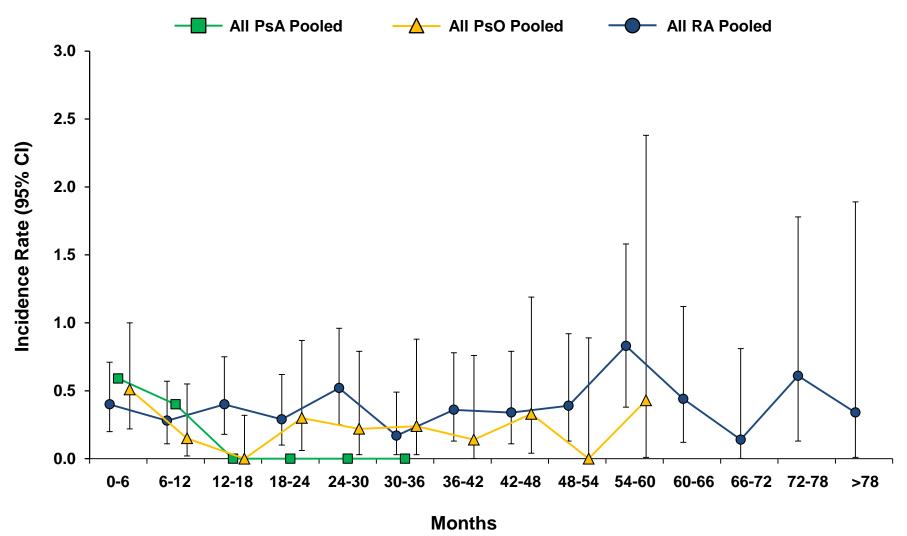
Incidence of Major Adverse Cardiovascular Events (All PsA, Pooled Data)

- Major Adverse Cardiovascular Events (MACE)
 - MACE is a composite CV endpoint comprised of cardiovascular deaths and non-fatal CV events of myocardial infarction and cerebrovascular events
- 3 cases of MACE
 - Sudden cardiac death
 - Non-fatal MI
 - Non-fatal ischemic stroke

MACE Incidence Rate in PsA is Similar to Other Tofacitinib Long Term Study Data



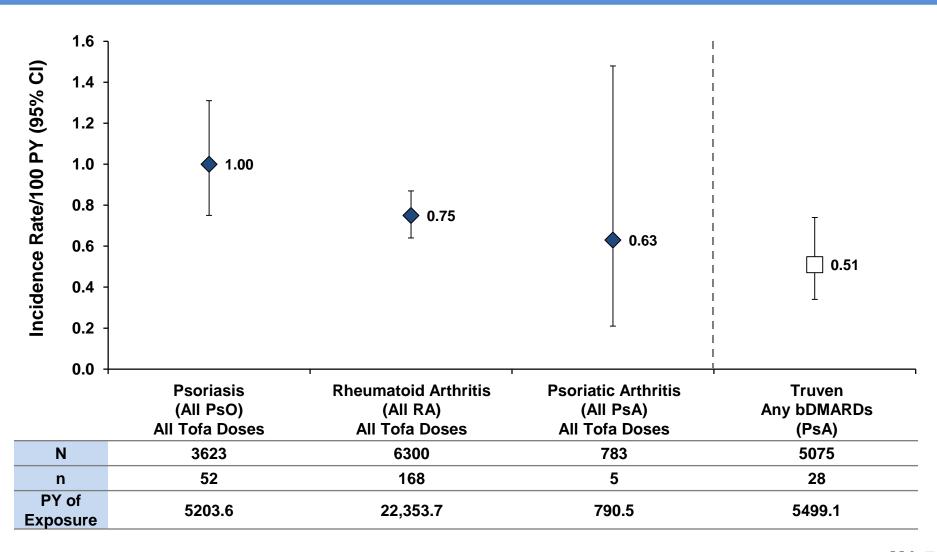
Incidence Rates for MACE Risk Over Time (All PsA and PsO Pooled, and RA)



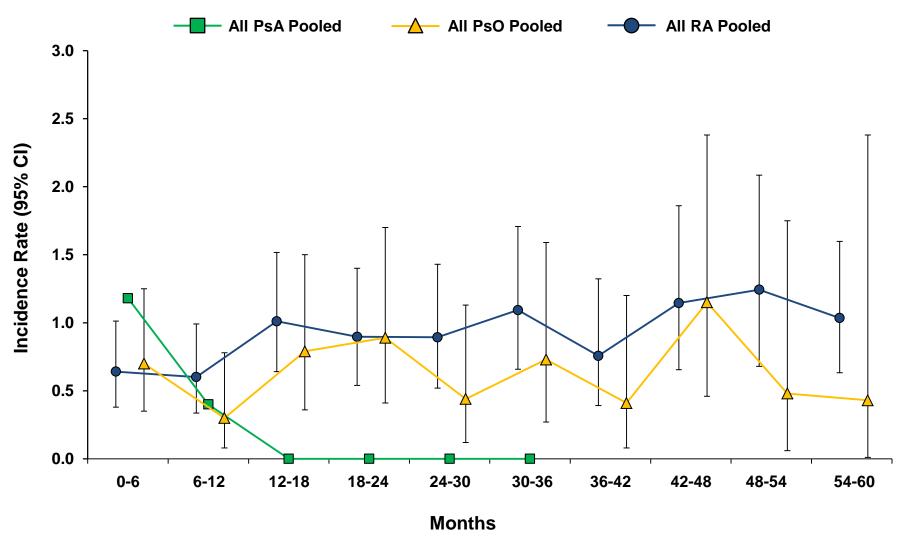
Malignancies Excluding NMSC (All PsA, Pooled Data)

Malignancy Type	Randomization Sequence	LTE	Dose at Time of Onset	Gender/ Race/ Age ^a	Country	Days on Tofacitinib	Comments
Urothelial carcinoma	Tofa 5 mg BID	No	Tofa 5 mg BID	Male/ White/ 58	Poland	48	Hematuria at baseline
Renal cell carcinoma	Ada 40 mg SC Q2W	Yes	Tofa 5 mg BID	Male/ Other/ 44	Mexico	32	Smoker
Pancreatic duct adenocarcinoma metastatic	Ada 40 mg SC Q2W	Yes	Tofa 5 mg BID	Male/ White/ 52	Poland	84	Smoker
Squamous cell carcinoma of the vulva	Tofa 5 mg BID	No	Tofa 5 mg BID	Female/ White/ 65	Mexico	65	Abnormal urinalysis since Study Day 11
Breast ductal carcinoma	Tofa 5 mg BID	No	Tofa 5 mg BID	Female/ White/ 67	USA	244	Postmenopausal, Biopsy: ER (+), PgR (+), HER2 (-), Stage II

Malignancies (Excl. NMSC) Incidence Rate in PsA within Range of Those Reported in Other Tofacitinib Long Term Study Data



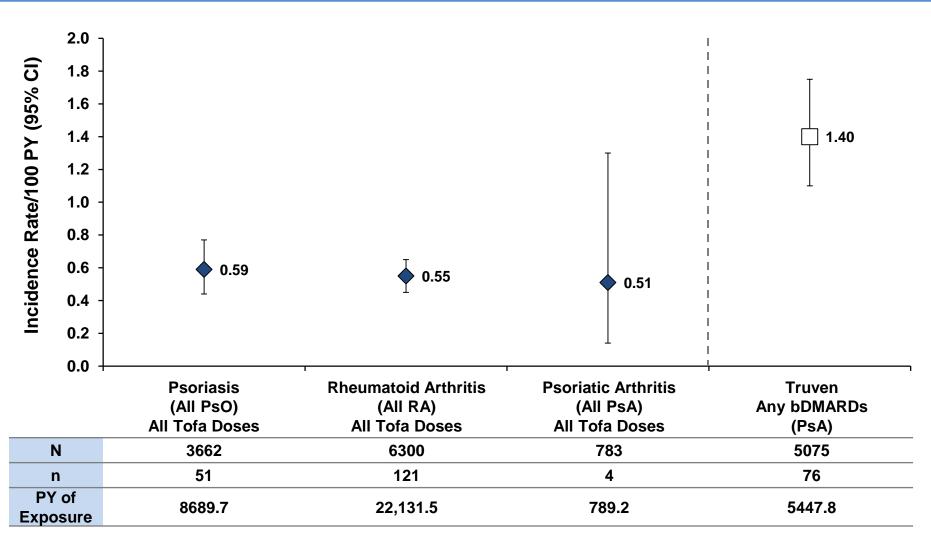
Rate of Malignancies (Excl. NMSC) Over Time (All PsA and PsO Pooled, and RA)



Incidence of Non-Melanoma Skin Cancer (All PsA, Pooled Data)

- Basal cell carcinoma (n=2)
- Squamous cell carcinoma (n=2)
- All cases occurred in sun exposed areas of fair skinned individuals

NMSC Incidence Rate in PsA are within Range of Those Reported in Other Programs (All PsA, Pooled Data)



Laboratory Parameters Showed Similar Trends to Those Observed in Other Programs

- Modest dose dependent decreases in neutrophils and hemoglobin
 - Absolute neutrophil counts were not associated with an increased incidence of infections
- Modest decreases in the absolute lymphocyte counts in the long term extension study
- Modest dose dependent increases in high density lipoprotein (HDL) and low density lipoprotein (LDL)
- Transaminase changes
 - Liver transaminase elevations >3X ULN were infrequent and not dose-dependent
 - One patient had ≥5X ULN elevation of ALT
 - No patients with ≥10X ULN
- Modest dose dependent increases in serum creatinine

ALT=Alanine Aminotransferase MA-82

Other AEs of Special Interest (All PsA, Pooled Data)

- Gastrointestinal perforations
 - 1 event of appendicitis with perforation
- Interstitial lung disease
 - No events
- Tuberculosis
 - No events
- Hepatic events
 - No events of hepatic failure, fibrosis or cirrhosis
 - No subjects met Hy's Law criteria

Safety profile of tofacitinib is well characterized, stable and manageable

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- Rates of adverse events of special interest in the PsA program are similar to those observed in biologic DMARDs (except herpes zoster)
- Safety profile in the PsA program is consistent with those observed in the RA and PsO safety databases

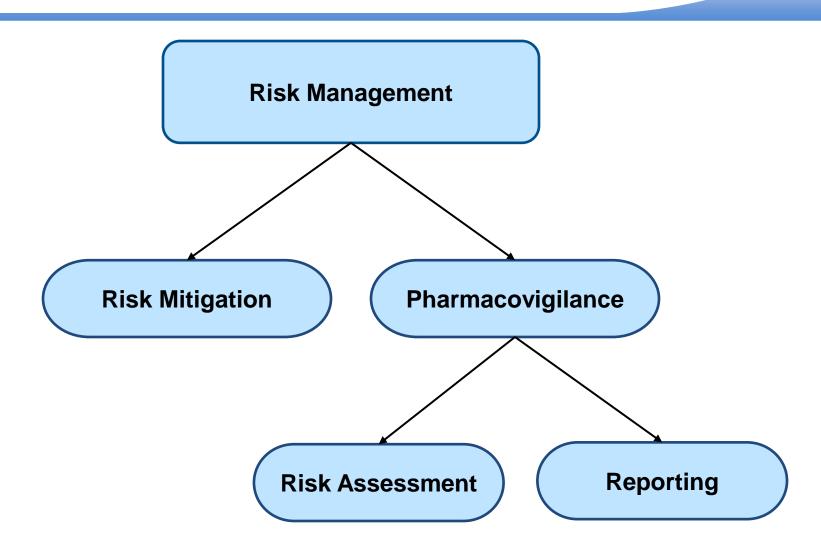
Overview of Presentation

Topic	Presenter			
Introduction	Nancy McKay Director, Regulatory Affairs Pfizer Inc			
Psoriatic Arthritis: A Physician's Perspective/ Unmet Medical Need	Philip Mease, MD, MACR Director, Rheumatology Research, Swedish-Providence-St. Joseph Health Systems Clinical Professor, University of Washington School of Medicine, Seattle, WA			
Tofacitinib PsA Development Program and Efficacy	Keith Kanik, MD, FACR Senior Director, Global Clinical Lead PsA Inflammation and Immunology Pfizer Inc			
Tofacitinib PsA Safety	Daniela Graham, MD Clinician, PsA Development Program Inflammation and Immunology Pfizer Inc			
Risk Management	Thomas Jones, MD Senior Director, Safety Risk Management Pfizer Inc			
Benefit:Risk and Conclusions	Michael Corbo, PhD Senior VP, Chief Development Officer Inflammation and Immunology Pfizer Inc			

Risk Management

Thomas Jones, MD Senior Director, Safety Risk Management Pfizer Inc

Effective Approach to Risk Management for Tofacitinib



Risk Management for Tofacitinib in PsA: Building on Effective Approach in RA and Consistent Safety Profile

Risks and Other Safety Information	Mitigation		
Serious infections including TB, viral reactivation			
Malignancy including LPD			
NMSC			
GI Perforations	Risk mitigation through product labeling		
Abnormal labs (lymphocytes, neutropenia, anemia, liver enzyme and lipid elevations)			
Vaccinations (avoid use of live vaccines while on tofacitinib)	proposed for PsA same as for RA		
Drug-drug interactions (DDI), concomitant immunosuppressants			
Specific populations (pregnancy, pediatric, geriatric, diabetic, renal and hepatic impairment)			

Risk Management for Tofacitinib in PsA: Building on Effective Approach in RA and Consistent Safety Profile

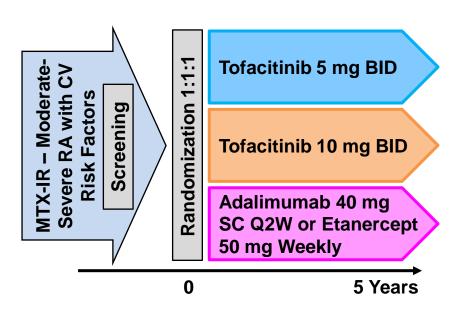
Pharmacovigilance:

		Asses	ssment and Reporting
Risks and Other Safety Information	Mitigation	Routine Monitoring/ Reporting	
Serious infections including TB, viral reactivation		V	
Malignancy including LPD		$\sqrt{}$	
NMSC	Risk	V	
GI Perforations	mitigation	$\sqrt{}$	
Abnormal labs (lymphocytes, neutropenia, anemia, liver enzyme and lipid elevations)	through product labeling	V	
Vaccinations (avoid use of live vaccines while on tofacitinib)	proposed for PsA same as for RA	√	
Drug-drug interactions (DDI), concomitant immunosuppressants		√	
Specific populations (pregnancy, pediatric, geriatric, diabetic, renal and hepatic impairment)		V	

Risk Management for Tofacitinib in PsA: Building on Effective Approach in RA and Consistent Safety Profile

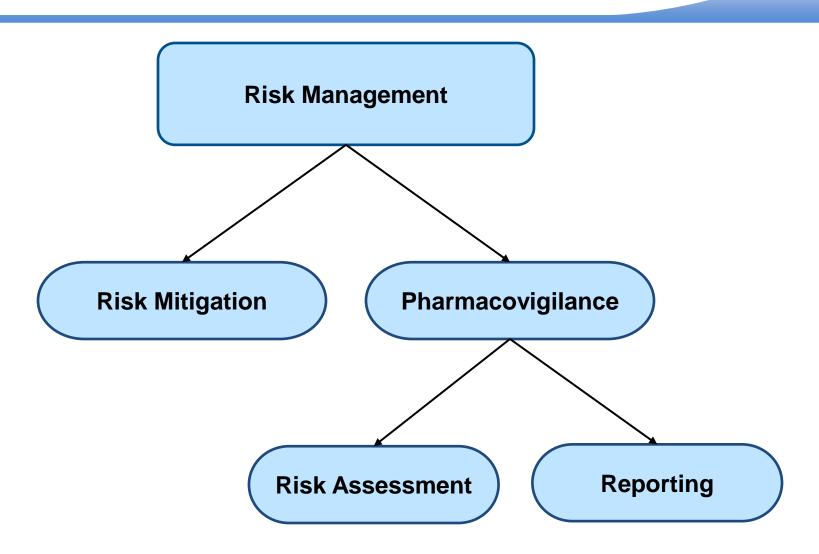
		Pharmacovigilance: Assessment and Reporting				
Risks and Other Safety Information	Mitigation	Routine Monitoring/ Reporting	Study 1092 PsA LTE Study	Indirectly via RA Studies		
Serious infections including TB, viral reactivation	Risk mitigation through product labeling proposed for PsA same as for RA	$\sqrt{}$	V	\checkmark		
Malignancy including LPD		_		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
NMSC			$\sqrt{}$	V	V	
GI Perforations			$\sqrt{}$	V	V	
Abnormal labs (lymphocytes, neutropenia, anemia, liver enzyme and lipid elevations)		$\sqrt{}$	V	V		
Vaccinations (avoid use of live vaccines while on tofacitinib)		√	V	√		
Drug-drug interactions (DDI), concomitant immunosuppressants			√	√		
Specific populations (pregnancy, pediatric, geriatric, diabetic, renal and hepatic impairment)		$\sqrt{}$	$\sqrt{}$	Pregnancy registry		

Study 1133 Study Design



- Prospective, Randomized, Open-label,
 Blinded Endpoint Study (PROBE)
- Phase 3b/4 Event-driven trial (FDA PMR study)
- Co-primary endpoints: MACE and malignancies
- Population: Adults with rheumatoid arthritis
- 4372 subjects randomized
- External Steering Committee
- External DSMB
- Endpoint Adjudication Committees
 - CV, malignancy, hepatic, opportunistic infections, GI perforation, ILD

Effective Approach to Risk Management for Tofacitinib



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Benefit: Risk and Conclusions

Michael Corbo, PhD Senior VP, Chief Development Officer Inflammation and Immunology Pfizer Inc

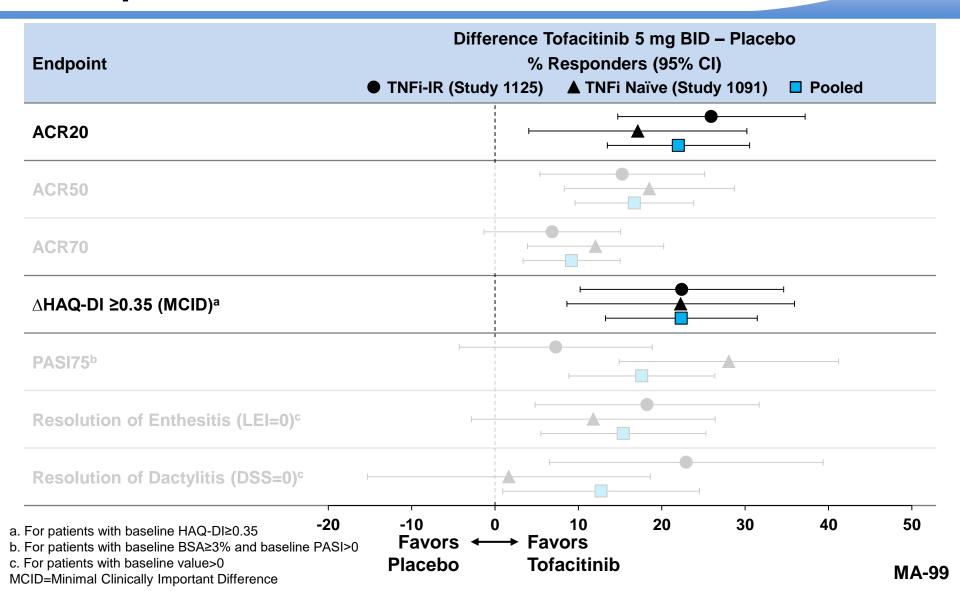
XELJANZ® (tofacitinib) for PsA Proposed USPI: Indication and Dosage

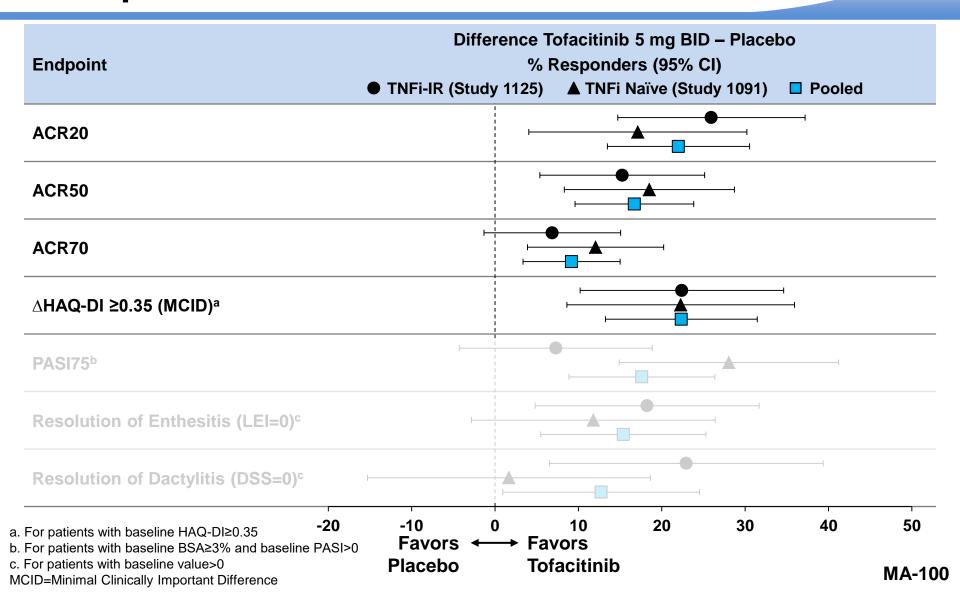
Proposed Indication in sNDA (1. INDICATIONS AND USAGE)

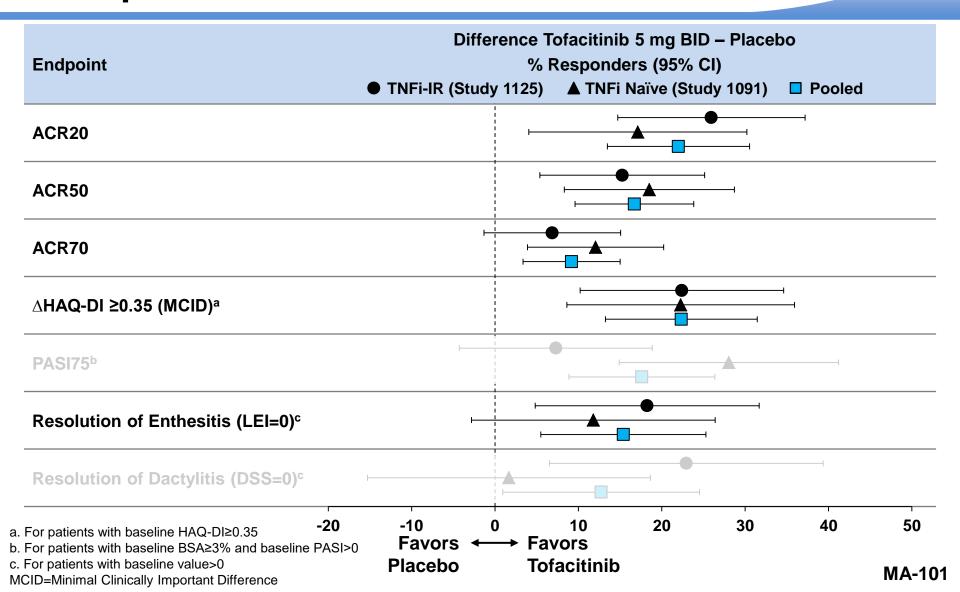
XELJANZ is indicated for the treatment of adult patients with active psoriatic arthritis

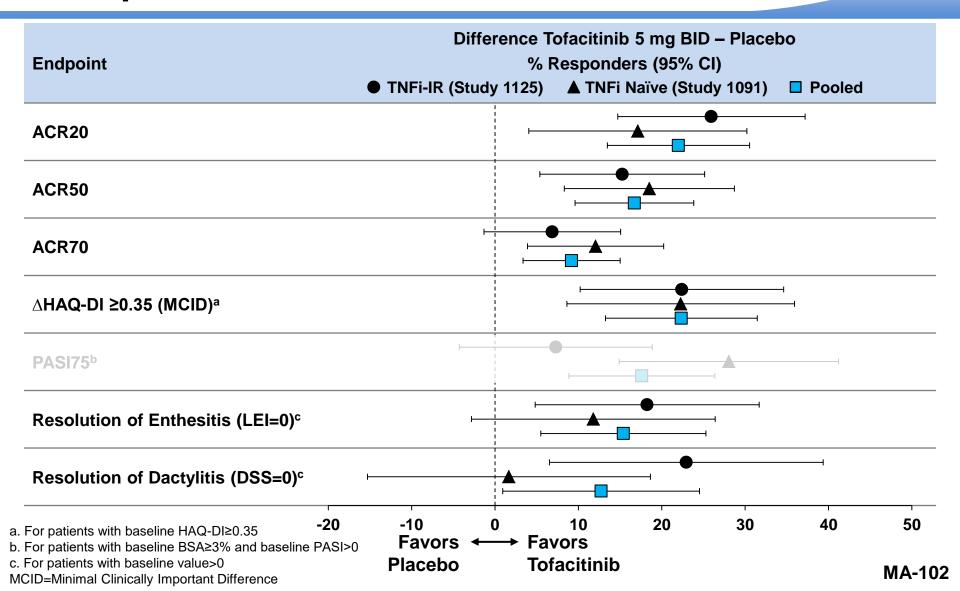
Proposed Dosage in sNDA (2. DOSAGE AND ADMINISTRATION)

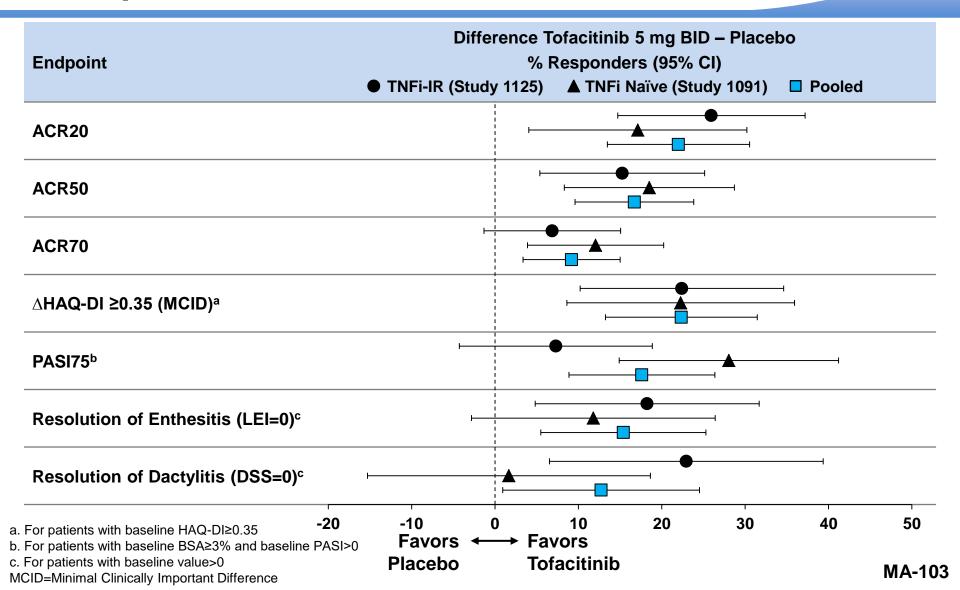
The recommended dose of XELJANZ is 5 mg twice daily used in combination with conventional synthetic DMARDs



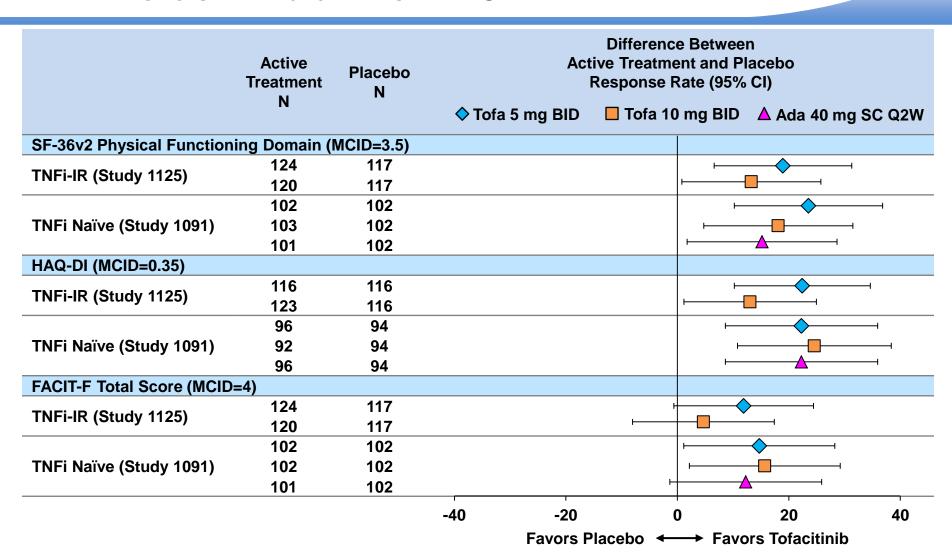




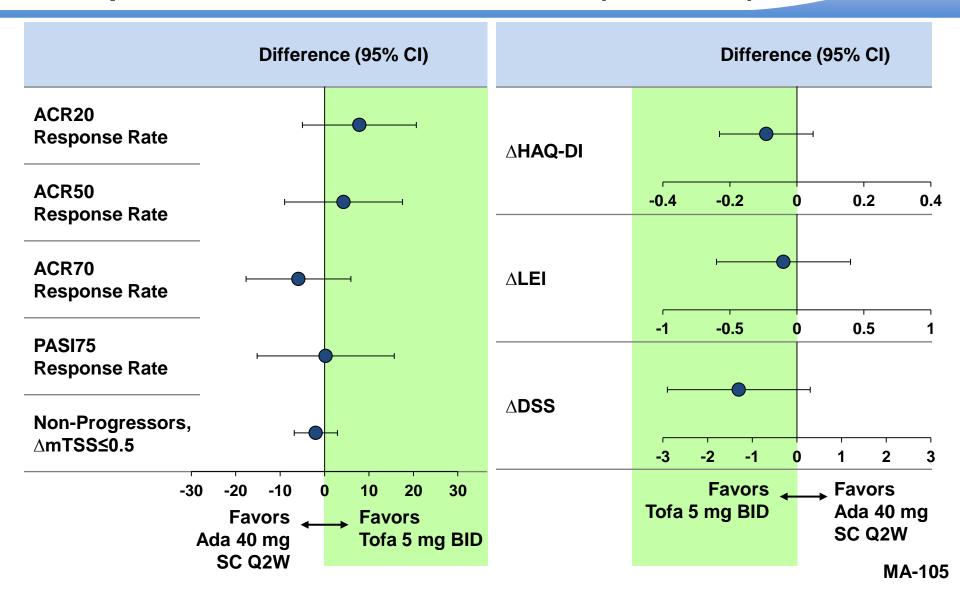




Improvement in Health Related Quality of Life with Tofacitinib at Month 3



Comparison Between Tofacitinib 5 mg BID and Adalimumab in TNFi-Naïve Patients (Study 1091) Across Multiple PsA Disease Manifestations (Month 12)



Risk Assessment

Foundation of Safety Database for Tofacitinib

Extent of Exposure in Tofacitinib Development Programs

PsO 3662 patients and 8537 PY exposure

RA 6300 patients and 21,886 PY exposure Up to 9 years of exposure PsO and RA Clinical Trials

Foundation of Safety Database for Tofacitinib

Extent of Exposure in Tofacitinib Development Programs and Marketed Drug

PsO 3662 patients and 8537 PY exposure

RA 6300 patients and 21,886 PY exposure Up to 9 years of exposure PsO and RA Clinical Trials

Corrona Registry: 1261 patients with 1478 PY of exposure

Real World Since 2012

Experience with >80,000 PY of exposure with marketed to facitinib

Overall Tofacitinib Safety Database Exposure to Tofacitinib Supporting Safety in PsA

783
patients
775 PY
of exposure

PsA
Clinical Trials

PsO 3662 patients and 8537 PY exposure

PsO and RA Clinical Trials

RA 6300 patients and 21,886 PY exposure Up to 9 years of exposure

Corrona Registry: 1261 patients with 1478 PY of exposure

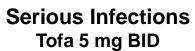
Real World Since 2012

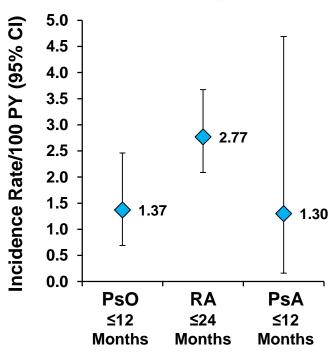
Experience with >80,000 PY of exposure with marketed to facitinib

Safety of Tofacitinib 5 mg BID in PsA

- Infections
 - All
 - Serious
 - Herpes zoster
- Lab Changes
 - Lipids (LDL and HDL)
 - Lymphocytes
 - Transaminase changes
- Non-Melanoma Skin Cancer
- Potential Risks
 - Malignancies excluding NMSC
 - MACE

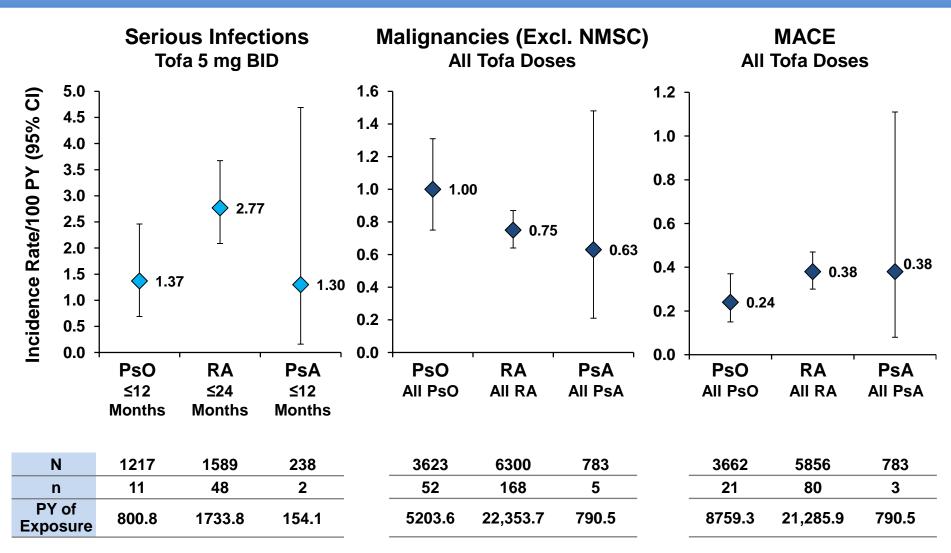
Risks with Tofacitinib Treatment are Consistent Across Diseases





N	1217	1589	238
n	11	48	2
PY of Exposure	8.008	1733.8	154.1

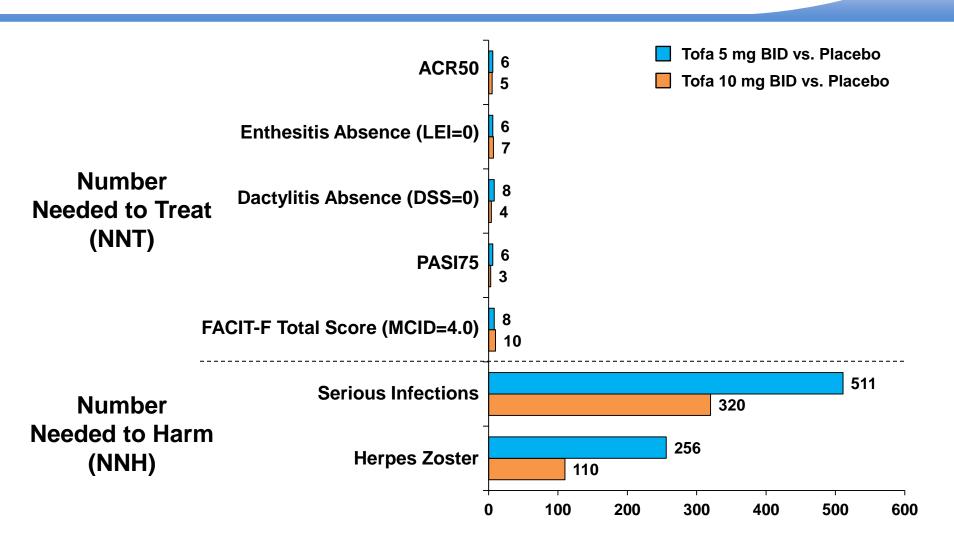
Risks with Tofacitinib Treatment are Consistent Across Diseases



Scope and Effectiveness of Risk Management of Tofacitinib

- Overlapping risks with RA
- Proven signal detection/assessment/reporting
- Addition of PsA-specific measures including
 - Labeling
 - Long term safety assessment in clinical trial setting up to 4 years
 - More detailed understanding of long-term events in PsA

NNT/NNH for Tofacitinib 5 and 10 mg BID vs. Placebo at Month 3



Benefits

Clinical effect across key manifestations

Benefits

Clinical effect across key manifestations

Efficacy in csDMARD IR and anti-TNF IR

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Clinical effect across key manifestations

Efficacy in csDMARD IR and anti-TNF IR

Effects demonstrated as early as 2 weeks

Be	nef	its
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Oral, small molecule without anti-drug antibody formation

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Positive results across suite of PROs at the population and patient level

Benefits

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Positive results across suite of PROs at the population and patient level

Risks

Examples of events include infections, herpes zoster, NMSC and malignancies (excluding NMSC)



Consistent with RA safety profile
Addressed through established
Risk Management
Further informed by long-term studies

Backup Slides Shown

Baseline Methotrexate Dose in TNFi-Naïve Patient Population (Study 1091)

		Placebo N=92		Tofa 5 mg BID N=92		Tofa 10 mg BID N=92		Ada 40 mg SC Q2W N=79	
	Mean	Median	Mean	Median	Mean	Median	Mean	Median	
	(SD)	(Range)	(SD)	(Range)	(SD)	(Range)	(SD)	(Range)	
Baseline MTX	15.5	15.0	16.4	15.0	16.8	15.0	15.8	15.0	
dose, mg/week	(4.12)	(5-20)	(3.79)	(10-25)	(11.7)	(5-105)	(4.44)	(5-25)	

Immune Response to LZV in Zoster Vaccine Study 1237 in RA Patients

RA patients starting Tofacitinib 5 mg BID had similar VZV-specific humoral and cell-mediated immune responses to LZV as compared to placebo-treated patients

Immunogenicity assessment	St	udy 1237
Change in VZV IgG at week 6	Tofa 5 mg BID	Placebo
(IgG fold-rise)	2.11 fold rise	1.74 fold rise
	80% CI=(1.87, 2.37)	80% CI=(1.55, 1.95)
Absolute Value of VZV IgG titer	Baseline: 201	Baseline: 182
at week 6 (ELISA Units/mL)	Week 6: 403	Week 6: 323
Change in VZV ELISPOT at	1.5	1.29
week 6 (SFC fold-rise)	80% CI=(1.31, 1.70)	80% CI=(1.14, 1.46)
(SFCs/10 ⁶ PBMCs)		
Absolute Value of VZV SFCs/10 ⁶	Baseline: 48	Baseline: 43
PBMCs	Week 6: 70	Week 6: 56